

**HOW TO MAKE NCR AND USER DEFINED REPORTS  
AND  
PERFORM SEARCHES IN THE CAIRS DATABASE**  
**(Instructions omitted from the CAIRS Manual)**

## NCR REPORTS

NCR reports are listings of components meeting a specified inspection criterion and so, inspection categories are used for NCR reports.

To define a Nonconformance Report criterion:

- 1) Select Inspection Type from the Inspection Results Menu<sup>1</sup>
- 2) Define and perform search<sup>2</sup>
- 3) Save search as "NCR\*\*\*\*"
- 4) Exit to the Pipeline Information screen
  - press [/] to change menu
  - Go to NCR Reports
  - Go to Review
  - Select inspection type (same type used in preceding search)
  - press [Y] to create/review NCR details
  - press [enter] to display NCR reference options

To print an NCR Report:

- 1) From Pipeline Information press [/] to change menu
- 2) Select NCR Report
- 3) Select desired NCR report type
- 4) Complete as directed

When applicable, press [S] to change a report for ALL pipelines to a specific one. Press [enter] at pipeline and inspection prompts to display a list of acceptable options.

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<sup>1</sup> To access Inspection Results Menu from Main Menu:

- (a) Press [1...Pipeline Data]
- (b) Press [-->]

<sup>2</sup> To perform Search:

- (a) Press [/]
- (b) Select Filter
- (c) Select Search
- (d) Continue as directed

## USER DEFINED REPORTS

User Define Reports (UDR) are a simple way to retrieve both baseline and inspection pipeline data. These reports may be made from any module displaying the [/] (Menu) option at the bottom of the screen.

To create a UDR:

- 1) Press [/]
- 2) Select "Reports"
- 3) Select "UDR"
- 4) Press [N] when creating a new report
- 5) Press [S] (or [enter] when "Screen" is displayed) for output to screen  
Press [P] (or [enter] when "Printer" is displayed) for output to printer
- 6) Select all desired report data items noting space available]
- 7) Press [---] after entry of all data items

Report will print to screen or printer as previously selected

- 8) Press [Y] to save report to UDR Library for later viewing  
Press [N] otherwise

To retrieve a report from the UDR Library

- 1) Press [/]
- 2) Select "Reports"
- 3) Select "UDR"
- 4) Press [Y] to recall a UDR definition (previously defined report) from the library
- 5) Press [enter] to access highlighted report
- 6) Press [Y] to proceed
- 7) Press [S] (or [enter] when "Screen" is displayed) for output to screen  
Press [P] (or [enter] when "Printer" is displayed) for output to printer

## **SEARCH**

Performing a search is an effective way to retrieve data with similar characteristics. A search can be carried out from any module displaying the [/] (Menu) option at the bottom of the screen.

**To perform a Search:**

- (a) Press [/]
- (b) Select "Filter"
- (c) Select "Search"
- (d) Select Data Items for search
- (e) Choose desired operator
- (f) Enter appropriate data value
- (g) [Y] to proceed with search
- (h) [Y] to save search to Library for later viewing

**To view a saved search:**

- (a) Press [/]
- (b) Select "Filter"
- (c) Select "Library"
- (d) Press [enter] to retrieve records from highlighted search

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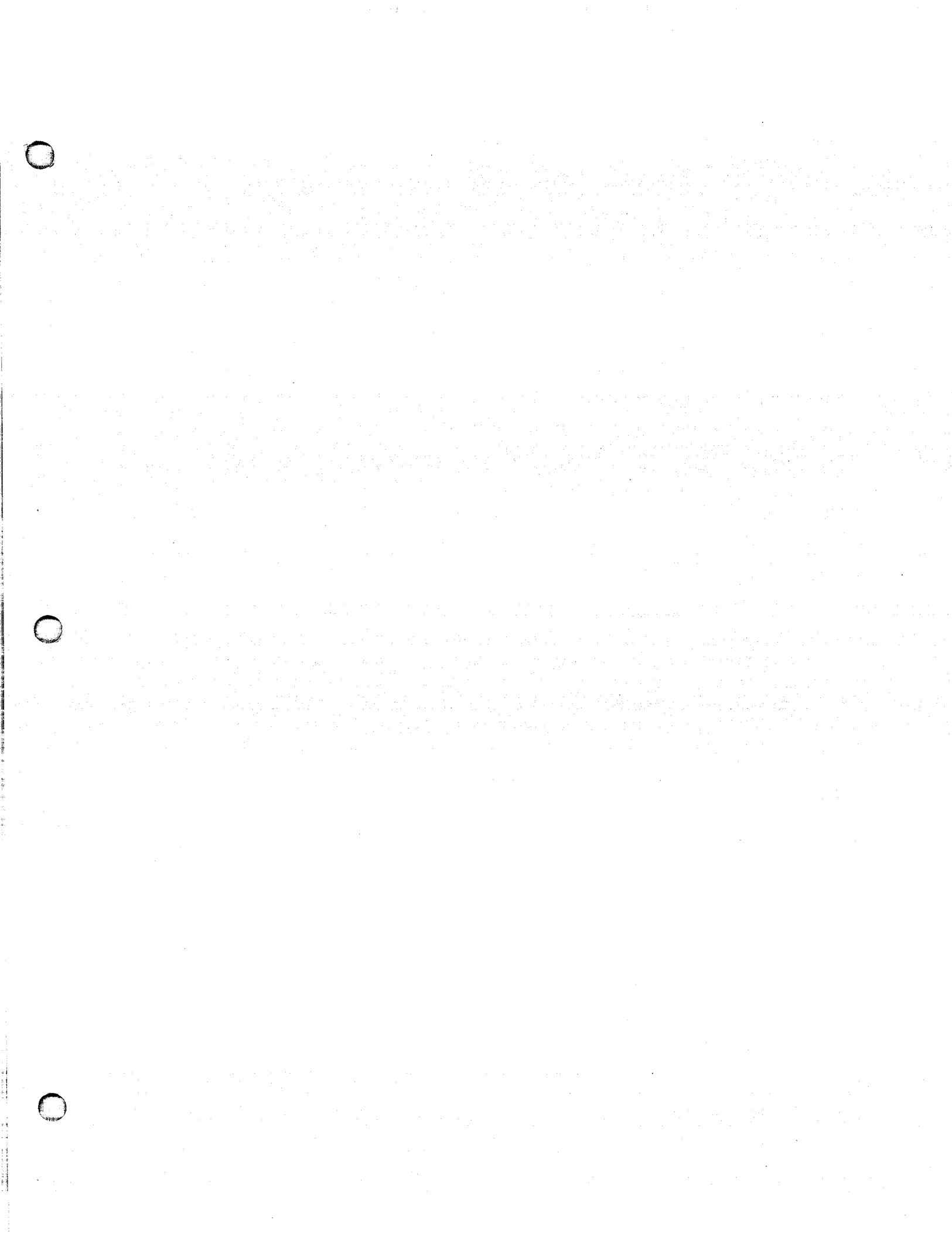
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**ABOUT CAIRS**

Welcome to CAIRS...

CAIRS is an acronym for :

[C]omputer  
[A]ided  
[I]nspection  
[R]eporting  
[S]ystems

These systems are intended to assist Engineering Departments in the collection, storage and analysis of Inspection readings and observations.

All CAIRS packages have been produced by Oceaneering subsidiaries, initially OCEAN SYSTEMS ENGINEERING and now by the CAIRS group within OCEANEERING-SOLUS SCHALL.

The CAIRS GROUP may be contacted through your local OCEANEERING representative or direct in Houston, Texas or Aberdeen, Scotland.

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**INSTALLATION****INSTALLATION INSTRUCTIONS**

CAIRS is supplied on a high density 3½" diskette, it is also available on request on 5¼" diskettes.

The CAIRS system is supplied in a compressed archived format, each disk labelled according to the installation routine.

First make a copy of your distribution diskette(s) and put the original(s) in a safe place. Use the copied diskettes to complete the following installation routine:

► STEP 1 - Make a suitable directory on your Hard Disk called CAIRS.

eg. C:  
MD\CAIRS

► STEP 2 - Change Directory to the newly created CAIRS directory.

eg. CD\CAIRS

► STEP 3 - Insert System Disk 1 in your floppy disk drive.

► STEP 4 - Assuming your Diskette Volume label is A: and your current drive is C: , type the following at the DOS prompt :

A:INSTALL A: C:

The system will now create the CAIRS system in the C:\CAIRS directory.

► STEP 5 - Remove Disk 1 from drive.

► STEP 6 - Insert and copy the contents of Disk 2 into the newly created C:\CAIRS\SOFTWARE directory.

eg. COPY A:.\*.\* C:\CAIRS\SOFTWARE

► STEP 7 - Remove Disk 2 from drive.

► STEP 8 - Insert and copy the contents of Disk 3 into the newly created C:\CAIRS\SOFTWARE directory.

eg. COPY A:.\*.\* C:\CAIRS\SOFTWARE

Installation complete !!!

It is recommend that the your PC has as a minimum, 500k of DOS accessible free RAM before accessing the CAIRS system with an additional 3Mb of extended/expanded memory.

**SYSTEM DISKETTES**

The system diskette you are currently using should be accompanied by a number of other disks. These contain software that will allow the CAIRS system to operate. The contents of these disks should be copied to the software directory created during the installation process.

Once this has been carried out you can startup the system by typing CAIRS at the installation directory.

Typically this would be in a directory called C:\CAIRS :

You would therefore type the following at the DOS prompt :

C:

CD\CAIRS  
CAIRS

#### USING The CAIRS SYSTEM with NETWORKS

There are many variables in a Network system including the hardware platform, software being used and type of LAN package. To get the best performance from CAIRS on a network we recommend that your Network administrator contacts Solus Schall for advice. However the following changes can and should be made:

The CAIRS system has TWO "startup" files that configure the system these are:

- 1) CAIRS.BAT
- 2) CONFIG.FP

Both of these files contain network specific commands that are as a default disabled (Using REMark statements or a '\*').

If CAIRS is to be networked then remove the remarks and '\*' from the respective files (See SYSTEM CONFIGURATION). When these commands are activated CAIRS will at startup time, copy all the commonly used program files to a local workstation drive (C:) in an attempt to reduce network traffic and improve performance. Activating these commands on a stand alone system will NOT cause any problems (Except for occupying additional drive space).

MSDOS'S SHARE command with networks. (Not required with Novell)

Many of the DOS based networks (Microsoft, IBM, Peer to Peer systems) require that the server has the DOS command SHARE.EXE running. (Single user MSDOS ver 4.xx systems with large hard disk partitions also require SHARE.EXE).

MSDOS'S Share command is used to lock files on the server and prevent users overwriting each others work. To enable file locking SHARE needs to keep track of all the file locks it allocates. LOCKS & FILES require memory dependant on the length of the filenames (including paths). If insufficient resources are available, then DOS will report various nondescript apparently unrelated error messages and data may be corrupted. Therefore be sure to allocate the correct SHARE.EXE parameters on your network.

For the CAIRS SYSTEM [ONLY] with 1-10 users the share command should be started with the following options:

SHARE /F:4112 /L:500

With a system expecting a greater number of users or additional users accessing other programs these options will need to be revised. Refer to the Microsoft documentation or contact Solus Schall for advice.

#### MSDOS Version 3.2

Due to an inherent bug MSDOS Version 3.2 is NOT recommended in a Network environment and may cause file corruption.

**SYSTEM CONFIGURATION**

CAIRS is a complex software suite where several independent programs are linked together in the same environment. Unfortunately due to inherent limitations of the Microsoft Disk Operating System a memory switching technique has to be employed in order to share the limited 640K of DOS accessible memory, between all the programs. Fortunately FoxPro is able to use the page switching memory standard (EMS) designed to relieve some of the DOS limitations. We strongly recommend that you utilize a memory manager such as QEMM with CAIRS. The trade off for using these systems is that in order to achieve maximum performance the CAIRS user must take a little time to configure their system correctly. Hopefully in the future the memory limitations of DOS will be removed along with all these settings.

**MSDOS System Files**

To ensure correct CAIRS operation you should first check that your Operating system has the following resources;

```
SHELL=C:\DOS\COMMAND.COM /P /E:1024  
FILES=80  
FCBS=35,35
```

The first command is placed in the CONFIG.SYS file to be invoked upon boot-up. The second two commands are typically placed in the CONFIG.SYS. Some of the EMS managers available (QEMM etc.) allow you to load the FILES & FCBS functions into higher memory from the command line (or more typically from the AUTOEXEC.BAT file).

Also typically set in the CONFIG.SYS file are the number of file BUFFERS allocated to DOS. WITHOUT a Disk Caching system present we would recommend a setting of:

```
BUFFERS=20
```

Disk Caching is a system that can significantly decrease the time taken to retrieve data from your hard disk and is particularly effective with databases such as CAIRS. Disk Caching software effectively negates the need for so many buffers and this figure can usually be reduced to as little as 5. Please consult your Caching Software handbook for instructions.

**CAIRS CONFIGURATION FILES**

CAIRS.BAT is a DOS batch file that configures DOS VARIABLES and PATHS and starts the CAIRS system. It can be modified by the user to:

- 1) Increase/decrease the amount of memory allocated to AutoCAD.
- 2) Inform CAIRS of the Drive & Directory where AutoCAD resides.
- 3) Configure CAIRS for a Network environment.

**1) MEMORY ALLOCATION**

In real mode versions of AutoCAD (8088 Ver.10 and below) there are several DOS 'SET' variables that control memory usage. The following settings are recommended, and should not need to be changed.

```
SET ACADFREERAM=20K  
SET LISPHEAP=41K  
SET LISPSTACK=4K
```

Two other settings are available and will may require customization if you have memory resident programs that require that RAM be reserved for their use.

If your machine has EXPANDED memory (QEMM etc) then we recommend you use:

```
SET ACADLIMEM=XXX (Default=ALL)  
SET ACADXMEM=0
```

Where XXX = The number of Kilobytes of available Expanded you wish to limit AutoCAD to use. (We recommend you use ALL.)

IF your machine has EXTENDED memory then we recommend the following:

SET ACADLIMEM=0  
SET ACADXMEM=ALL      (Default=0)

ALL may be replaced with an amount in Kilobytes of extended memory you wish to allocate to AutoCAD.  
(We recommend you use ALL.)

Notes:

- 1) The system is configured on delivery to use ALL AVAILABLE EXPANDED MEMORY.
- 2) Please consult your AutoCAD installation guide for more information.
- 3) Expanded and Extended memory is generally allocated from the same memory pool therefore if ACADXMEM & ACADLIMEM together total greater than the available memory pool a AutoCAD error will result (Typically - Extended / Expanded Memory disabled). This also applies if both variables are set to ALL.
- 4) None of the above SET variables are active for protected mode versions of AutoCAD (Version 10-386 & 11)
- 5) AutoCAD DRIVE & DIRECTORY  
Make sure that the drive & directory that AutoCAD is located (Default = C:\ACAD) is placed in the PATH statement under 'Save & Set DOS Paths'. If CAIRS is unable to locate AutoCAD then the system will not function.
- 6) NETWORK Configuration  
FoxPro the database 'engine' of CAIRS has the ability to transfer its most disk intensive tasks to a local drive in order to
  - a) Speed up operations
  - b) Reduce Network traffic.This function can be activated by removing the relevant REM statements under 'NETWORK SPECIFIC COMMANDS' and by setting the appropriate switches in the CONFIG.FP file. Please consult your Network administrator before implementing this function.

CONFIG.FP

CONFIG.FP is a text file utilized by the database to set many of the default settings. The majority of the settings should NOT be changed.

User settings are:

DATE=XXXX    (Default=YMD)

Sets the format for date display.

Options BRITISH (DD/MM/YY)  
              AMERICAN (MM/DD/YY)  
              ANSI (YY.MM.DD)  
              YMD (YY/MM/DD)

EMS=XXX    (Default=1024K)

Allocates EMS (Expanded) memory to FoxPRO. If sufficient memory is available then this value may be increased as will database performance. Please note however that allocating memory to the database will exclude its use by AutoCAD. Therefore this setting should be set in conjunction with the ACADXMEM & ACADLIMEM variables above.

Network Specific Files

Removing the \* from the following commands in the CONFIG.FP and from the Network commands in the CAIRS.BAT will activate FoxPRO's local processing feature which will speed up operations & reduce Network traffic.

OVERLAY=C:\CAIRSNET OVERWRITE

```
EDITWORK=C:\CAIRSNET  
SORTWORK=C:\CAIRSNET  
PROGWORK=C:\CAIRSNET  
TMPFILES=C:\CAIRSNET
```

**WHAT YOU WILL NEED**

CAIRS is designed to run on IBM-PC compatible machines. The minimum recommended hardware and software configuration reads as follows;

- 80386 processor with 640 Kbytes RAM
- 60 Mbyte Hard Disk
- Color VGA Screen
- HP Laserjet II/III Printer or compatible
- DOS System Ver 3.3 or higher

It should be noted that the CAIRS system can take advantage of expanded and extended memory and as such will run much faster with these facilities. It is also worth noting that disk size required will be a function of data population and it may be necessary to have more available in high data loaded systems, especially if the User is interfacing with AUTOCAD options.

The system is written in FOXPRO2 (a dBASE derivative). It supports file and record locking and as such can be used over Multiuser networks, such as Novell etc.

The system also has an AutoCAD Interface option. In order to enable this to run it is necessary for the User to ensure that the AutoCAD program is accessible from the CAIRS system.

CAIRS is supplied in disc format, 3.5" with Installation Details.

We would highly recommend that a Single User System should be placed on a P.C which is dedicated to the CAIRS System only.

We also recommend that a expanded memory manager such as QEMM, 386MAX or Compaq's CEMM be employed with the system, this will enable better utilization of the available memory and will increase performance especially in the database.

**BACKUP**

CAIRS is a major system which can quickly grow to tens if not hundreds of MBytes. As such we strongly recommend that a high capacity backup device such as a tape streamer be used to carry out regular backups.

However it is recognized that not all users will have access to such a device (at least in the early stages in the use of the system). We have therefore included the diskette containing the data compression software PKZIP. We would draw your attention to the license information supplied with the system.

Please note that this should suffice only for relatively small data populations and would not be suitable for more general use.

**SYSTEM OVERVIEW****INTRODUCTION**

CAIRS should be regarded as a tool to collate and assimilate the large volumes of inspection data in order to provide accurate and timely information for the engineer. This information should include interpretation of inspection data based on design standards, material specifications and operating conditions. As the name implies CAIRS requires data from ongoing inspections so as to allow analysis. The interpretation of current data in a historic context is vitally important as it is only through this, that accurate assessment of conditions can be made.

By using CAIRS to screen data for potential problems, the possibility of missing a critical piece of information is reduced. Consequently, by relieving Engineers of the tedious task of checking and analyzing each item of data, they are in the position to spend more time preparing remedial programs and future inspection programs. These productivity gains mean that tasks that were previously thought not to be possible through the constraint of time and/or resources may now become achievable.

From it's inception our clients' objectives in operating such a system were used as a vehicle to produce consistent paper based reports whose formats were independent of any given contractor.

With improving computer technology and a desire on behalf of operators for more exacting inspection monitoring standards it has becoming increasingly apparent that this principal system objective has now changed from that of a paper based reporting system to that of a system which collates and reports inspection information on electronic media (computers).

This is because, the management effort involved in assessing a large volume of paper reports associated with IMR activities was and is becoming prohibitive. Computerized Inspection systems should therefore be focused on producing summary and nonconformance reports as well as producing reports that present all data collated in the course of a given inspection(s).

Subsea Inspection CAIRS is concerned specifically with Platform, Pipeline and Riser Inspections. Although each are different in terms of data content, CAIRS has been written with the intention of making each module as consistent as possible in terms of functionality.

**METHODOLOGY**

In the course of using Inspection packages of this kind it is the case that the requirements and uses made of CAIRS vary considerably. This is because by different regulations and objectives by different operators in different geographic regions .

CAIRS has therefore been written with this requirement for change and evolution as one of the it's important objectives.

CAIRS achieves this objective by allowing the user to set up his own environment, in that he can specify the nature and extent of validation and cross checking. Amongst other benefits this allows the user to specify his own acceptance criteria for the data, thus providing a fast and flexible means to process data for nonconformance.

**PIPELINE CAIRS**

The primary purpose of Pipeline CAIRS is to assist engineers and technicians in the compilation and interpretation of inspection results.

As with all CAIRS systems data can be entered manually. However the nature of Pipeline Inspection means that the system will largely be concerned with data which in itself is generated by a computerized data logging system. Since this data is available in ASCII format CAIRS has the ability to import and screen this data directly from this media without the need for manual intervention.

**DATA HELD IN THE SYSTEM**

The data in the Pipeline system can be grouped into the following categories.

#### PIPELINE MASTER RECORDS

This data relates to information that can be directly attributed to the pipeline a whole. This would typically include details specific to a given pipeline such as types of pipeline coatings used, and the anodes installed.

#### INSPECTION MASTER RECORDS

This data is concerned with Inspection Events or Surveys. This is mainly confined to summary data such as the type of inspections, who and when was it carried out. The system also has the facility to associate many pipelines against a given Inspection Master Record.

#### COMPONENTS

Components comprise several data categories each of which holds descriptions of the physical features, installed items or abnormalities that can be inspected on or around the pipelines. Each of these data categories holds data for a specific type of feature, eg anodes. The system also has the ability to relate one component with another eg a Span with a specific Crossing.

It should be appreciated that these Components are NOT Inspection Specific. Instead they are meant to hold information that can be referenced and updated by Inspection data.

#### INSPECTION RESULTS

As the name suggests this relates to the observations made during the course of a given Inspection or Survey. These will be associated with both a Master Pipeline and Inspection Results.

#### RELATIONSHIPS

Each Component is allocated a unique ID number by CAIRS to allow the comparison of results for one object gathered from several Inspections.

The identities used will indicate the component type eg A = ANODE, C = CROSSING etc together with a sequential number. These numbers are NOT related to any positional data ie a high ID number does not necessarily mean a high Footpost (FP) position.

In general the data that is considered to be descriptive and constant from inspection to inspection is held in the Component data tables.

All other data is held under Inspection results - both in the data table that is specific to that category of Component eg Crossing, Anodes etc and in the general results data tables eg Photographs, CP etc.

All Components regardless of source are listed in the Master Component Inventory list which will allow you to see the order (by Footpost) in which the items appear along the pipeline.

Components are created by one of two methods. In both instances the ID number is allocated by CAIRS. Once allocated you cannot reassign a number.

##### METHOD 1

By direct data entry, eg when a crossing is installed on a pipeline, the necessary information can be entered prior to the next survey of that line.

##### METHOD 2

Related to the discovery of events during a survey. When you enter an inspection result that has a related Component Category (eg Anodes) the system will check to see if this component already exists on the system - if not it will provide the option to create a new one. In the event that data is being imported via text files, the system will automatically create new Components if it cannot find a preexisting component.

The system can "find" a component from an inspection record by checking if there is a component of that type within the vicinity of the Footpost position you have specified in the inspection record. The extent of this search that defines the term "vicinity" is specified by the user in the Pipeline

Master Record and would be typically  $\pm 17$  feet.

**GETTING STARTED****STARTING CAIRS**

To begin using the system type 'CAIRS' and press the Enter key (to start a bat file) or select the CAIRS option from your Menu System.

The CAIRS title screen (which shows the Version number and a Copyright Notice) is displayed and you are asked to enter the User Name given to you by the CAIRS System Administrator and your Password.

As any records you edit will be labelled with your own User name and any files you create will be found in your CAIRS User Area, you alone should get in to CAIRS with your User Name and Password. Your User name has an associated Privilege attached to it which determines what facilities you are restricted to, eg editing MASTER RECORDS and System Administration Facilities.

If you mistype your User Name or Password several times you will go back to the DOS prompt or the Menu. See your CAIRS System Administrator who will be able to give you a new CAIRS Password.

If you have previously left the CAIRS system illegally i.e. you have not gone through the normal shutdown procedure, the system will assume that you are trying to log on twice under the same name. You will have the opportunity to override this check. However you should be aware that if you have genuinely logged on twice in a multiuser system you run the risk of corrupting your data.

Once you have successfully "logged on" to the system then the user is presented with the MAIN MENU.

**MAIN MENU**

This Menu gives you the choice of Exiting from CAIRS completely or accessing one of the available options.

It will be displayed again when you finish using one of the available options.

**FINISHING CAIRS**

When you have reached the point when you have completed reviewing the CAIRS data, you should take the following actions to exit from CAIRS.

**CAUTION :** You should always exit from CAIRS in the normal manner. Improperly finishing a CAIRS session may cause problems later.

The steps to be taken depend on what facility in CAIRS you are using when you need to finish.

- ▶ **EDITING RECORDS**  
You should save the complete record or press the ESCAPE key and so abort without saving the new details.
- ▶ **MENUS & DATA SCREEN**  
By pressing the Left Arrow or Escape keys, you go back towards the Master Records. You can therefore press these keys repeatedly to get back to the Module Main Menu.
- ▶ **FAST EXIT**  
Pressing the Control and Home keys simultaneously has the same effect as repeatedly pressing the Escape or Left Arrow keys and confirming that you want to go back to the Module Main Menu.

When you are back at the Main Menu you need to select "0...Exit CAIRS".

**CAIRS USER AREA**

This is a subdirectory setup by CAIRS to hold any files you create while using CAIRS. Files can be of a temporary nature, ie . created and deleted by CAIRS, without you needing to know. Other files

will be created accordingly to your specific instructions, eg. text files containing User Defined Reports.

The Search Library files are held in your user directory. (There is a facility on the SEARCH and SORT menu to delete these saved searches). If these files are erased when deleting the other files then CAIRS will recreate them.



**COMMON FEATURES**

This chapter describes the common screens and features that you will see and use when using this CAIRS system.

**GENERAL SYSTEM USE**

Navigating your way around a CAIRS system is simple and consistent. The whole system is driven by either Menus or Data Lists. This section will explain how to use the menus and pick lists to locate and access the precise data you require.

**MENUS**

All CAIRS menus appear as red windows containing a number of numbered menu choices. The number of choices in a menu is given on the middle bottom line of the menu window. NOTE All menu choices may not be displayed at all times, this is dependant upon the number of menu choices and the size of the menu window. To see all the menu choices look up and down the menu by using the up and down arrow keys, [↑] and [↓], and the menu list will be scrolled within the menu window. Each menu choice will be highlighted by a highlight bar as you scroll through. To select an option from the menu you must highlight this option and then select by pressing either the right arrow key or the ENTER key.

**Example**

From the Pipeline Data Menu highlight the 'Inspection Results' option by using either the down arrow key or by pressing the corresponding menu choice number, in this case 03. Once highlighted select the option by pressing either the right arrow key or the ENTER key. The screen should now show the Pipeline Inspection Menu.

**DATA PICK LISTS**

A data pick list is a listing of all data entries held against a given menu category, eg. all platforms held in the Platform Data category. These data pick lists will consist of a handful of key data items detailing the uniqueness of each data entry. Pick lists allow the user to quickly browse and/or locate any required data in a matter of seconds.

All CAIRS pick lists appear as blue windows containing these data listings.

The number of data entries in a pick list is given on the bottom line directly underneath the first data item in the list. A short description of each data item detailed in the data pick list is given at the top of the list window with the data category (ie. the menu option chosen), given in red directly above the list window. If these data items are stored in units then the units are shown on the bottom line directly underneath each data item column. eg. Footpost would Kft.

This facility also acts as the access point to create, edit and delete data. In addition, it also provides access to data manipulation and reporting facilities.

The commonly available options from both menus and pick lists are as follows:

- ▶ LEFT ARROW or ESCAPE - return to the previous screen, this may be the parent data list or a menu.
- ▶ RIGHT ARROW - if there is more detailed information it causes a new data list or menu to be presented.
- ▶ UP (DOWN) - moves the highlight bar to the previous (next) entry.
- ▶ HOME (END) - displays the first (last) entry in the data table
- ▶ PAGE UP (DOWN) - displays the previous (next) batch of entries.
- ▶ ALPHANUMERIC KEYS - the alphanumeric keys A-Z and 0-9 can provide an alternative method of moving through the displayed data. When one of these alphanumeric keys are pressed then the highlight bar will be placed on the first record that starts with that particular character. Pressing another key will place the highlight bar on the record that starts with the two character combination. In the event that a match is not found then the system will display a "NOT FOUND" message and subtract the last character from the search expression.

eg. If an "A1" combination is specified that no match could be found for then the system will place the highlight bar on the first entry that starts with an "A" (after displaying the "NOT FOUND" message).

- ▶ ENTER - If the screen features data and not a menu then suitably privileged users can edit the information in the highlighted record. Pressing ENTER in a menu is equivalent to pressing right arrow.
- ▶ INSERT - In the same circumstances you will be able to create a new record. It will take default values from either the Master record or the previously highlighted record.
- ▶ DELETE - If you have adequate privilege you will be able to delete the highlighted record. The record cannot be deleted if there is dependent data in other categories, eg. a master platform entry.
- ▶ CTRL HOME - this is the fast exit key, after pressing it you will return to the Main Menu or to the start of your process.
- ▶ / - The slash key when pressed from a data list displays the Data Manipulation menu then you are able to select from a number of permitted actions.
- ▶ F1 - The On-Line Help facility which available at all times. See section ?? for more information
- ▶ F2 - The Technical Information Pool facility which available at all times. See section ?? for more information
- ▶ F3 - The ORDER facility. This function is available whenever CAIRS is resident in a data pick list. This will display the current order the pick list is displayed in. eg. The Platform data pick list is shown in alphabetical platform order.
- ▶ F4 - The LIST facility. This function is available whenever CAIRS is resident in a data pick list. This will display a detailed description of all data items displayed in the data pick list.
- ▶ F5 - The ITEMS facility. This function is available whenever CAIRS is resident in a data pick list. This will display a detailed description of all data items held against this data category. ie. All the items of information that may added in the full edit session for this data category.

**MENU SYSTEMS**

Menus can occupy the entire screen (like the Main Menu) or part of it when it is appropriate not to obscure the currently selected data (for example the Data Manipulation Menu occupies the bottom three lines of the screen).

In all instances, a highlight bar is included in the menu. A selection is made from the menu by one of two means;

The first method is to move the highlight bar from one option to another with the cursor control keys, eg. the Up, Left Arrow and End keys, and then pressing the Enter key. As each option is highlighted, additional information may be displayed at the bottom of the screen.

The second method consists of pressing the key that corresponds to the initial character or digit of that option.

In certain circumstances the Data Screen facility is used to present a menu, where either the number of options or the context of the menu mean it is more practical to use it.

**EDITING DATA**

This subsection describes how you add to or alter information held in the data tables.

It takes you through the various screen displays and lists the special key strokes you may want to use. Note that these keys may have a different effect elsewhere.

**TO BEGIN EDITING**

To add a new record you press the "INSERT" key. To edit an existing record, you need to move the highlight bar to the record that needs changing and press the "ENTER" key to select it.

**TYPING INTO FIELDS**

Some fields can not be edited. These are either calculated or assigned automatically and displayed or reserved for use by CAIRS.

When new records are created, most fields are filled with default values, these can be edited if necessary or passed over.

A fuller explanation of what is required when entering data appears at the bottom of the screen for every field. This supplements the more complete explanations contained in the on-line help (press F1).

Fields are edited in one of two types of displays :

- Edited in the highlighted bar.
- Edited in an edit box, the layout of which is intended to be similar to a data collection sheet.

The following editing rules apply :

- An editing session may include both display types.
- As you complete each field it is checked against a number of criteria and processed.
- If something invalid has been typed, then a message is displayed and you stay on this field.
- The validation criteria for some fields require inclusion in a particular library file. If the validation criteria is not met then the user can selected from a Red Pick List Window which will contain all applicable options. The Library file can be altered through the Library Maintenance facility which is available to highly privileged users.
- There is an alternative (quicker) method of selecting from a predetermined list. In this case, the list can be entirely anticipated before system delivery. This facility will automatically fill the field with an applicable option once the first letter of this option is entered. To scroll through the applicable options you must press the SPACE bar at the bottom of the your key pad. Please note that the applicable options are always shown in the help message at the bottom of the screen.
- You may also be given advice or passed over unnecessary fields depending on the field and what you have entered.

**COMPLETION OF EDITING SESSION**

After you have completed all fields, you are prompted to confirm that the new or revised record should be saved.

You have to answer yes to the prompt to save the new values.

If you either made no changes, or pressed the Escape key to finish editing, the new information will

not be saved.

SUMMARY OF KEY STROKES

- Escape/Ctrl-Q : Exit No Save
- Ctrl-PgDn/-End/-W : Exit And Save
- Ins/Ctrl-V : Insert Mode
- ↓/Return/Tab/Ctrl-J : Forward One Field
- ↑/Shift-Tab : Back One Field
- End : End of Field
- Home : Start of Field
- Ctrl-Y : Delete Rest of Line
- F1 : Help

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See Also: ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

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**RESERVED FIELDS**

A fundamental part of the CAIRS Database system is the identification of UNIQUE records or entries within given data categories.

During data entry, the system will check to ensure that the information being entered has not been entered before i.e. it is unique.

Every data category has a "KEY FIELD" or combination of fields on which UNIQUENESS depends.

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See Also:

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**EDITING FREE TEXT DATA**

There follows a description of the special editing keys that are available when you are editing a free-text field such as the Platform Description and Inspection History Master Files.

The special keys are useful as the free-text field can hold any amount of text and you may need to examine other fields on the screen. You may need to copy/delete larger quantities of text than in the fixed format fields.

Saving the current text is carried out by depressing the Ctrl and W keys simultaneously.

Exiting the Window without saving the content of the current editing session is carried out by depressing the Ctrl and Q keys simultaneously.

The text appears in a window that can be manipulated on the screen for the users own convenience. This is carried out by the following Key combinations. Depressing any of these Key combinations will make the Window border flash. While this flashing is on you can use the cursor keys (for MOVE and SIZE) or toggle the window (ZOOM) between full screen and Window.

Cursor movement

- Right Arrow : Move a character to the right
- Left Arrow : Move a character to the left
- Up Arrow : Move up one line
- Down Arrow : Move down one line
- Home : Move to the beginning of the line
- End : Move to the end of the line
- Page Down : Move down one window of text
- Page Up : Move up one window of text
- Ctrl : Accelerates cursor movement.
- Ctrl+Right : Move one word to the right
- Ctrl-Left : Move one word to the left.
- Ctrl-Home : Move to the beginning.
- Ctrl-End : Move to the end of the text.

Text Selection

The Shift key is used to select text. Selected text can be deleted, replaced, copied, cut, and pasted. When the Shift key is pressed the cursor is "anchored" at it's current location. While the Shift key is pressed, the cursor movement keys or Ctrl key combinations will select text. Text from the "anchor point" to the end of the cursor movement will be selected. (S=SHIFT)

- S-Right : Select a character to the right
- S-Left : Select a character to the left
- S-Up : Select one line moving up
- S-Down : Select one line moving down
- S-Ctrl-Right : Select to the end of the word.
- S-Ctrl-Left : Select to the start of the word
- S-Ctrl-End : Select to the end of text
- S-Ctrl-Home : Select to the start of the text

Operations on already Selected Text

- SPACE : Delete Selected Text
- Any Key: Deselect
- Ctrl-C : Copy Selected text to Paste BUFFER
- Ctrl-X : Cut Selected text to Paste BUFFER

Control Keys - Misc.

- Ctrl-A : Selects all text.
- Ctrl-U : Undo previous actions

- ▶ Ctrl-R : Redo Ctrl-U operations
  - ▶ Ctrl-C : Copy Selected text to Paste BUFFER
  - ▶ Ctrl-X : Cut Selected text to Paste BUFFER
  - ▶ Ctrl-V : Paste contents of Paste BUFFER
  - ▶ Ctrl-F : Find
  - ▶ Ctrl-E : Find & Replace
  - ▶ Ctrl-G : Find again
- 

See Also:

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**DATA VALIDATION**

Data validation is a term used to describe checks that the system applies during data entry.

**REASONS FOR VALIDATION**

- **UNIQUENESS** : To ensure that every data record is unique within the system. The system applies validation to ensure this (refer RESERVED FIELDS).
- **ACCURACY** : To ensure that data is as accurate as possible i.e. if the data is sensible, the majority of typographic errors will be eliminated.
- **CONSISTENCY** : To provide a means by which the data is consistent with other information within the system.
- **INTERROGATION** : By ensuring that data is entered consistently, data interrogation becomes a much simpler and more reliable operation.

**VALIDATION TECHNIQUES**

- **RELATIONAL VALIDATION** : The system will ensure that the data is consistent with other parts of the system
- **NUMERIC VALIDATION** : The simplest form of validation is a check to ensure that a numeric field lies within certain limits. This is employed extensively throughout the system to ensure that numeric data is at the very least sensible. This description is also applicable to Date formatted fields.
- **LIBRARY VALIDATION** : A significant proportion of validation is carried out to the users own criteria i.e. Each set of users must be able to define and operate to their own operating procedures. The system employs a library system in which users can define their own validation pick lists.

During entry of this type of data, the system will check that data entered is included in the appropriate Library. If it does not then a pick list will appear adjacent to the data entry field in question. By positioning the highlight bar on the desired library record and pressing the ENTER key the system will automatically fill the field with the contents of the chosen record (Refer to DATA SCREENS section for more information on how to manipulate Pick Lists)

► **TEXT VALIDATION** : As opposed to LIBRARY VALIDATION, TEXT VALIDATION is concerned with ensuring conformance throughout all systems, regardless of the user's own operating procedures. Generally speaking, this validation is much faster than Library validation as it does not have to cross reference against other files. All possible entries are listed in the HELP information displayed at the bottom of the screen. To scroll through the list press the Spacebar or type the first letter of an item. To choose one of the items and move to the next field, press Enter.

Please note that to avoid unnecessary duplication the above Validation Techniques are referred to extensively throughout this document.

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See Also:

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**DATA SCREENS**

DATA SCREENS, Data Lists and Pick Lists are all names for the same feature which allows users to view short one line data summaries on a scrolling menu.

This facility also acts as the access point to create, edit and delete data. In addition, it also provides access to data manipulation and reporting facilities.

The commonly available options are as follows :

- ▶ LEFT ARROW or ESCAPE - return to the previous screen, this may be the parent data screen or a menu.
- ▶ RIGHT ARROW - if there is more detailed information it causes a new data screen to be presented, the screen is either a menu of choices eg. Inspection results
- ▶ UP (DOWN) - moves the highlight bar to the previous (next) record.
- ▶ HOME (END) - displays the first (last) record in the data table
- ▶ PAGE UP (DOWN) - displays the previous (next) batch of records.
- ▶ ALPHANUMERIC KEYS - the alphanumeric keys A-Z and 0-9 can provide an alternative method of moving through the displayed data. The categories which utilize this method are denoted with a 'v'.

When one of these alphanumeric keys are pressed then the highlight bar will be placed on the first record that starts with that particular character. Pressing another key will place the highlight bar on the record that starts with the two character combination.

In the event that a match is not found then the system will display a "NOT FOUND" message and subtract the last character from the search expression.

Eg. If an "A1" combination is specified that no match could be found for then the system will place the highlight bar on the first record that starts with an "A" (after displaying the "NOT FOUND" message).

In some cases the complexity of the data order expression means that this feature is impractical to use. In these particular instances an error message advising you to use the cursor (or arrow) keys appears on the screen.

- ▶ ENTER - If the screen features data and not a menu then suitably privileged users can edit the non-critical information in the highlighted record. After editing you will be prompted to confirm that the newly edited data should be saved.
- ▶ INSERT - In the same circumstances you will be able to create a new record. It will take default values from either the Master record or the previously highlighted record.
- ▶ DELETE - If you have adequate privilege you will be able to delete the highlighted record. The record cannot be deleted if there is dependent data in other tables.
- ▶ CTRL HOME - this is the fast exit key, after pressing it you will return to the module Main Menu or to the start of your process.
- ▶ / - The slash key displays the Data Manipulation menu either of these types of screens are displayed then you are able to select one of a number of permitted actions.
- ▶ F1 - F5 Function Keys are available from the Data Screen.

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See Also: ▶ DATA MANIPULATION MENU (/)

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**FUNCTION KEYS**

Function Keys F1 through to F5 are used to provide generic information about the system.

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See Also: ► F1 - HELP , ► F2 - TIP , ► F3 - ORDER ,  
► F4 - LIST , ► F5 - ITEMS

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**F1 - HELP**

The system has an on-line help facility that is sensitive to the part of the system the user is operating in.

If there is an applicable Section within the Help documentation then this information will be displayed in an adjustable movable window. If there is no applicable Section then the user is presented with a list of Topics. Please note that this list of Topics is available from anywhere within the HELP utility.

It is also worth noting that the USER manual obtainable through the System Administration Module is made up of a sequential list of these Help messages. The Topic titles within the Help system correspond to the Chapter and Section headings within the USER manual.

**ACCESSING THE HELP FACILITY**

The On Line Help Facility is accessed by pressing the F1 function key.

The Help window appears with the first Help topic selected.

The Help window is a FoxPro window that can be :

- ▶ scrolled
- ▶ moved (F7)
- ▶ sized (F8 & F10)
- ▶ closed (ESCAPE)

It consists of two "panels" :

- ▶ help topics
- ▶ detailed information about each topic.

**HOW TO SELECT A TOPIC**

- ▶ Scroll through the topics to find the one you want, or
- ▶ Type a letter or series of letters to select the first topic beginning with those letter(s).
- ▶ If available (i.e. it is highlighted) you can use the SEE ALSO box to quickly access related Topics - See Below for more detail
- ▶ The LOOK UP facility - See Below for more detail

**HOW TO SEE DETAILED HELP TEXT**

- ▶ Select the topic and choose the «Help» text button, or
- ▶ Select the topic and press Enter, or
- ▶ Double-click on the topic with the mouse or the Spacebar.

The available information about the topic appears in the Help window.

If more information is available on a topic than fits in the window, use the scroll bar, Up/Down Arrow keys or PgUp/PgDn to see the remainder.

To return to the help topics list and select another topic, choose the «Topics» text button.

To see information about the next topic, choose the <Next> text button.

To see information about the previous topic, choose the <Previous> text button.

CONTEXT SENSITIVITY

DETAILED HELP TEXT may appear automatically when the F1 key is pressed. The specific DETAILED HELP TEXT Section will be related to the system facility or function you are using when the F1 key was selected.

LOOK UP AND SEE ALSO

As mentioned above you can access help via the LOOK UP and SEE ALSO facilities. These controls provide you with links among related Help Topics. For example, if you need more information about a key word in the help details, select (highlight) the word and choose the LOOK UP push button. (For LOOK UP to be enabled , a word or portion of the Help text must be selected). If the selected word is a help topic, help information appears for the word.

Note : When you highlight text in the details of a topic and choose LOOK UP, the system only looks for help information about the highlighted text in the topics list.

If a word is selected and a corresponding help topic cannot be found, a message box is displayed with the message "No help found for <topic>" appears. The topic in the contained in the list within the message box is the one that most closely matches your selected topic. You may choose this topic or another from the list.

When the current help topic is related to at least one other topic in the help file, the SEE ALSO popup is enabled. When you choose an option from this list of related topics on this popup, help information for the option appears, and when SEE ALSO is displayed again, it is divided into two sections.

Topics previously selected from the SEE ALSO popup appear on the upper portion of the popup window, and you can choose this topic to retrace your path. Choose from the lower portion of the popup to see information about additional topics related to the current topic.

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See Also: ► PRINT USER MANUAL/DOCUMENT, ► F2 - TIP

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**F2 - TIP**

TIP (Technical Information Pool). This key will cause the User Alterable HELP entered in the TIP facility to appear as HELP.

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See Also: ► F1 - HELP

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**F3 - ORDER**

► F3 - The ORDER facility. This function is available whenever CAIRS is resident in a data pick list. This will display the current order the pick list is displayed in. eg. The Platform data pick list is shown in alphabetical platform order.

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See Also: ► ORDER

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**F4 - LIST**

► F4 - The LIST facility. This function is available whenever CAIRS is resident in a data pick list. This will display a detailed description of all data items displayed in the data pick list.

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See Also: ► F5 - ITEMS

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**F5 - ITEMS**

► F5 - The ITEMS facility. This function is available whenever CAIRS is resident in a data pick list. This will display a detailed description of all data items held against this data category. ie. All the items of information that may added in the full edit session for this data category.

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See Also: ► F4 - LISTS

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**DATA MANIPULATION MENU (/)****INTRODUCTION**

This is a menu that is displayed when the slash key (/) is pressed from a Data Screen. It allows you to select one or other of a number of facilities to make full use of the available information. These facilities are described briefly as follows :

- ▶ **SEARCH** : This option provides the facility specify and carry out specify Search Criteria. It allows you to Filter out records that are not of immediate interest to allow you to concentrate on the few records that need attention. A given filter or search criteria will remain active while you are within the DATA MANIPULATION MENU.
- ▶ **REPORTS** : This option displays the Reports Sub menu. It enables you to select a Formal report or call on the User Defined Report generator to produce a tailored report for a given requirement. If a filter is in place then only those records that meet the filter condition will be included. This option also provides access to the Nonconformance Report Module providing it is applicable to the part of the system you are in.
- ▶ **DISPLAY** : Will display the data entry screen relating to the data category you are currently. Please note that this is always in read only form.
- ▶ **INFO** : Audit Trail Data
- ▶ **ORDER**: A quick means of ordering and Sorting data
- ▶ **EXIT** : Return to calling menu.

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See Also:

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**SEARCH****SEARCH**

This option provides a means of setting up a filter to sift the data stored in the system. The user defined search expression has no real limitations in respect to the criteria although you should appreciate that a search expression with more conditions will take longer to execute.

The user defined search expressions consists of one or more conditions. A condition consists of a field eg "INSPNO", an operator eg. "CONTAINS", and a value eg. "86".

Conditions are linked with continuation parameters, "AND"/"OR". When "AND" is used both conditions surrounding AND must be met; when "OR" is used only one of these conditions must be met.

You set up a search by specifying conditions by selecting a data item(s) along with an operator and comparison value. At this point you can erase the new condition, finish specifying the entire expression or add another condition.

The search is sensitive to the part of the system currently active and a list of available data items will appear on the left of the screen.

**Specifying the SEARCH CRITERIA**

For each condition you should first specify the relevant data item by highlighting it and then pressing the <Enter> key.

A second window will appear with a list of comparison operators. You should choose one of the operators again using the <Enter> key. The operators are:-

=	Equal to
#	Not Equal to
\$	Contains
<	Less Than
<=	Less Than or Equal
>	Greater Than
>=	Greater Than or Equal

All these can be used on character type items.

The "Contains" operator cannot be used on numeric fields, eg. Depth or Length. It is most useful when looking for key words or abbreviations.

Specify a value ie. what you wish to search for. This value will be sensitive to whether the data item is a character, numeric or logical field. Everything is converted to capitals.

Using Less Than "0" on a character field will select those fields that have not been completed. This can be used to ensure that comments describe records with unusual readings.

A window with a selection of continuation parameters will appear.

**AND**

Allows you to enter a further criteria. This parameter means that to satisfy the search expression, a record must satisfy both conditions.

**ERASE**

Allows you to erase the previously defined condition of the expression.

**OR**

Allows you to enter a further condition. This parameter means that to satisfy the search expression, the candidate should satisfy one of the conditions around the 'OR' in the expression.

**STOP**

This option tells the system that this is the last condition in the expression.

On selecting the "STOP" option a window will appear on the screen with the complete search expression. On hitting another key you will be asked to confirm whether or not to execute the displayed search expression. If confirmed the search expression will be applied to the data. You

will return to the Search menu.

#### Executing Search Expression

You will need to wait while the search is being executed. The time taken for this process is dependant on a number of parameters:-

- Amount of data generally in the system as a whole.
- Amount of data being searched through in the relevant files to the search conditions.
- The number of search conditions itself.
- The complexity of the search.

On completion of this process a window will display the number of records which satisfied the defined search expression. At this point the "\*\*\* SEARCH ON \*\*\*" message will be displayed in the bottom left corner of the screen. When you hit another key you will be asked whether you want to save this search.

#### Saving Searches

If you wish to save a search expression, you should answer "Y" when prompted. Then you will be asked to enter a seven character code to name the search and a description. The search expression itself will be saved.

These searches are stored in your own CAIRS user specific directory.

The system will then return to the Search menu.

#### Modify an Existing Search

If a search is currently active and you choose to define a new search the system will ask you if you want to modify the current expression. If you do answer "Y", a window will appear with the available continuation parameters as described above.

#### DISPLAY SEARCH

When this option is selected details of any current search criteria on the currently selected data and the Master Records are displayed.

#### CANCEL SEARCH

The active SEARCH is cancelled.

#### LIBRARY

This option allows you to browse the saved searches, execute them and if desired delete saved searches from the library.

On selection of this option you will be presented with a pick list of saved searches. Please note at this point, that only searches saved by you are available . (You may however exchange search expressions and results with your colleagues outside of CAIRS)

On selecting a saved search, the expression for that defined search is displayed on the screen. Any previous search expression or list is replaced by the recalled search. The recalled search expression will be executed as described above.

In the event you wish to delete searches, you will be asked for confirmation after selecting (by pressing the Delete Key) a saved search from a "pick list" that it should be erased. It will then delete the search from the user specific directory.

See Also:

**REPORTS**

CAUTION : Remember that in a multiuser system it may be possible that your colleagues may add more records to the data table, while your report is being produced. It is therefore strongly recommended that you and your colleagues ensure that reports are produced when all data has been entered.

On selection of Report from the Data Manipulation menu a pick list appears containing all available reporting options. The options that are available depend on where you are in the system.

**GENERIC REPORT TYPES**

See Also:

**UDR (User Defined Report)**

This option enables you to produce a tabular report that meets your immediate requirements.

The report may be displayed on the screen, printed or saved to a text file for later printing or analysis in a statistical software package.

When you select this option you are prompted for the output device. If you pick a text file you need to state whether it will be on the hard disk in your CAIRS user specific directory or on a floppy disk, and then provide a file name and extension. (The default file extension is UDR).

A list of the available fields or data items is displayed for you along with the maximum number of columns advisable (eg. 0 for screen output) and the number of columns used.

Whenever you select a data item by first highlighting it and then pressing the Enter key, you will be prompted to state how many characters of the data item should appear in the report (this allows fields that are usually blank or have set descriptions to be abbreviated to two or three characters). The default length will be the greater of the Short Description or the field's length itself (see descriptions of the types of data for lists of the data items and their short descriptions).

Note that you may exceed the stated maximum length of the report.

When you have pressed the Left Arrow or Escape key you will be prompted to confirm that the report as defined on the screen should be output.

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See Also:

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**FORMAL**

On initial selection of this option you will be asked whether you wish to print results from ALL platforms, pipelines or risers or just the CURRENT one dependant in which you are in. Please note that any SEARCH criteria that is currently in force will be applied to all platforms, pipelines, and risers if the ALL option is selected.

A Window providing a range of print options will then appear which will allow you to carry out the following :

**Scope of Report (S,A,I)**

This will allow you to select the Current Record Only (Single), the Current Inspection only (Inspection) or (All) records relating to this platform, pipeline or riser.

**Print Header Sheet**

A positive response will result in a header sheet being printed. This is normally used to complete a formal report for a data book presentation.

**Print Photo Captions**

A positive response will result in all applicable entries from the Photographic Log being presented in a format suitable for the presentation of the actual photographs in a data book.

**Print Selected Reports**

A positive response will result in the printing of the actual formal reports. This option is included to provide the user with opportunity of producing the Header and/or Photo Captions without the necessity of producing all formal reports.

Some Inspection Categories have more than one report option. Where this is the case then you will be asked to select which report which you require.

Finally you will be given the opportunity to abort the reports before printing starts.

While Printing is proceeding a window will appear at the center of the screen to indicate that the system is still working. As stated in this window, you can abort the report at any time by pressing the Escape key.

**BLANK REPORTS**

Blank Reports are formal reports without any data printed on them. They are used for data collection purposes.

See Also:

NCR (Nonconformance Report)

See Also:

**DISPLAY**

DISPLAY will provide a "read only" WINDOW displaying all data pertaining to the highlighted record on the Data List.

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See Also:

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**INFO**

- Info - Displays Audit information for the current record; who created the record when and who last modified the record and when.

It also provides Version and Title information for reference.

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See Also:

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**ORDER**

Selection of the ORDER facility will present the user with selection of indexes that can be quickly be used to SORT and FILTER the data. This could for example enable selection a given ITEM such as a Platform or present the data for all such ITEMS (Platforms) on the system. It should be noted that this facility complements the Search and Sort facilities within the system in that it presents readily manipulated data for INSTANT use.

Please note that the Search facilities are influenced by what ever index happens to be in force at the time.

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See Also: ► F3 - ORDER

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**MAIN MENU**

- ▶ 0. EXIT
- ▶ 1. PIPELINE DATA
- ▶ 2. PIPELINE INSPECTION
- ▶ 3. RISER DATA
- ▶ 4. RISER INSPECTION
- ▶ 5. TECHNICAL INFO. (TIP)
- ▶ 6. LIBRARY MAINTENANCE
- ▶ 7. SYSTEM ADMINISTRATION

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See Also:

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**3.1 PIPELINE DATA**

This section describes the Pipeline Master records. These comprise the Pipeline Descriptions and Inspection Descriptions.

**PIPELINE DATA - FIRST TIME ENTRY**

If this is the first time the system has been used, the User will have to setup certain items before data can be entered. If the Pipeline Data is not blank please goto Section 5.4.

Please refer to Library Appendix for full explanation of FIELD TYPE and their uses. There are four Library Maintenance Sections that need to be completed before the Pipeline Data Entry Screen can be completed.

STEP ONE : The Library Maintenance Section requires the name of the new Oil/Gas Field.  
From the main menu enter [8] or use [↑] key to highlight Library Maintenance and [ENTER].

STEP TWO : The Library Maintenance Pick List will appear;  
Use [+] key to highlight { 13..Oilfield Identifications } and press [ENTER]

STEP THREE : A WINDOW will appear with the following;  
{ CODE | DESCRIPTION }

The CODE is a short description of the title of the Oil/Gas field, the User must enter a CODE and then use the [ENTER] key.

The DESCRIPTION is a full descriptive of the title of the Oil/Gas field, the User must enter a DESCRIPTION and then use the [ENTER] key.

< Note > The above is printed out on reports.

After entry, the confirm bar will appear;

{ \*\*\*\*\* Confirm to Save to File (Y/N) [N] \*\*\*\*\* }

This is a common feature throughout the system.

The User must now enter [Y] and then press [Enter] to confirm the new entry to the Oil Identifications Library. Pressing the [ENTER] alone without entering [Y] will ignore the Users entry. Once confirmed the user should press the [-] key to return to the LIBRARY MAINTENANCE menu.

STEP FOUR : The Library Maintenance Section requires the name of the Pipe Lay Contractor.  
Use [↑] key to highlight { 04..CONTRACTOR } and press [ENTER].

The screen will appear with two WINDOWS;

{ NO RECORDS ! PICK LIST NOT AVAILABLE }

{ DO YOU WISH TO CREATE A NEW RECORD [N] }

To create the first data for CONTRACTOR enter [Y] and press [ENTER].

A WINDOW will appear with the following;  
{ CODE | DESCRIPTION }

The CODE is a short description name of the CONTRACTOR, the User must enter a CODE and then use the [ENTER] key.

The DESCRIPTION is a full name of the CONTRACTOR, the User must enter the full name and then use the [ENTER] key.

After entry, the confirm bar will appear;

{ \*\*\*\*\* Confirm to Save to File (Y/N) [N] \*\*\*\*\* }

This is a common feature throughout the system.

The User must now enter [Y] and then press [Enter] to confirm the new entry of the CONTRACTOR Library. Pressing the [ENTER] alone without entering [Y] will ignore the Users entry. Once confirmed the user should press the [<-] key to return to the LIBRARY MAINTENANCE menu.

STEP FIVE : The Library Maintenance Section requires the name of the new Corrosion Coating Type.

Use [↑] key to highlight { 05..Corrosion Coating Type } and press [ENTER].

The screen will appear with two WINDOWS;

{ NO RECORDS ! PICK LIST NOT AVAILABLE }

{ DO YOU WISH TO CREATE A NEW RECORD [N] }

To create the first data for Corrosion Coating Type enter [Y] and press [ENTER].

A WINDOW will appear with the following;  
{ CODE | DESCRIPTION }

The CODE is a short description of the title of the User Corrosion Coating Type, the User must enter a CODE and then press the [ENTER] key.

The DESCRIPTION is a full descriptive of the title of the Corrosion Coating Type, the User must enter a DESCRIPTION and then use the [ENTER] key.

After entry, the confirm bar will appear;

{ \*\*\*\*\* Confirm to Save to File (Y/N) [N] \*\*\*\*\* }

This is a common feature throughout the system.

The User must now enter [Y] and then press [Enter] to confirm the new entry to the Corrosion Coating Type Library. Pressing the [ENTER] alone without entering [Y] will ignore the Users entry. Once confirmed the user should press the [<-] key to return to the LIBRARY MAINTENANCE menu.

STEP SIX : The Library Maintenance Section requires the name of the new ANODE MATERIAL TYPE.

Use [↑] key to highlight { 01..ANODE MATERIAL TYPE } and press [ENTER].

The screen will appear with two WINDOWS;

{ NO RECORDS ! PICK LIST NOT AVAILABLE }

{ DO YOU WISH TO CREATE A NEW RECORD [N] }

To create the first data for ANODE MATERIAL TYPE enter [Y] and press [ENTER].

A WINDOW will appear with the following;  
{ CODE | DESCRIPTION }

The CODE is a short description of the title of the User ANODE MATERIAL TYPE , the User must enter a CODE and then use the [ENTER] key.

The DESCRIPTION is a full descriptive of the title of the ANODE MATERIAL TYPE, the User must enter a DESCRIPTION and then use the [ENTER] key.

After entry, the confirm bar will appear;

{ \*\*\*\*\* Confirm to Save to File (Y/N) [N] \*\*\*\*\* }

This is a common feature throughout the system.

The User must now enter [Y] and then press [Enter] to confirm the new entry to the ANODE MATERIAL TYPE Library. Pressing the [ENTER] alone without entering [Y] will ignore the Users entry. Once confirmed the user should press the [<-] key to return to the LIBRARY MAINTENANCE menu.

STEP SEVEN : Press the [<-] key to return to the Main Menu.  
Enter [1] to open up Pipeline Information.

The screen will appear with two WINDOWS;

{ NO RECORDS ! PICK LIST NOT AVAILABLE }

{ DO YOU WISH TO CREATE A NEW RECORD [N] }

The above will only appear if there is no data held within Pipeline Information.

To create the first data for Pipeline information, enter [Y] and [ENTER].  
The Pipeline Information screen will appear - blank, awaiting new data.

#### PIPELINE DATA - INSERT A NEW PIPELINE - BLANK SYSTEM

The 1st FIELD ( PIPELINE ) can now be entered with a new pipeline title. Use the [ENTER] key to confirm the Users entry. Note the pipeline title must be unique. The next FIELD ( Length ) is now ready for entry. This procedure continues throughout the screen, refer Section 5.5 , however, certain FIELDS will only allow the User to enter certain items listed in the Library Maintenance Section, refer to Section xxx.

Example : 4th FIELD ( Field Served )

If the User enters a title that is not listed in the library an OPTION WINDOW will appear showing the User a selection list that the User can choose from. To select the User must use the Arrow Keys [↑] or [↓] to highlight his choice and to confirm his choice the User must press the [ENTER] key. The said FIELD will autofill with the Users choice from the library.

#### PIPELINE DATA - INSERT A NEW PIPELINE - EXISTING SYSTEM

Upon entering into PIPELINE DATA from the main menu a screen will appear in a WINDOW with the following FIELDS; from Left to Right; note this is only the case if data has already been entered, else refer to Section 5.3

- 1) PIPELINE  
A unique title for a particular pipeline

- 2) LENGTH  
The length of the highlighted pipeline, measurements given in Kft.
- 3) LAST INSP  
The date of the last inspection survey for that pipeline, note there might be older Inspection survey dates for that particular pipeline.
- 4) YR  
Installation date of the pipeline.
- 5) Field  
The associated Area field that pipeline belongs to.

Press the [INS] key to add a new pipeline.

#### PIPELINE DATA - ENTRY FIELDS

< NOTE > Those FIELDS marked with an asterisk are Library Option Field.

- |                                   |   |
|-----------------------------------|---|
| 1) Pipeline                       | - Pipeline Identity                                     |
| 2) Length                         | - Length of Pipeline (kft)                              |
| 3) Year Installed                 | - Year Pipeline Installed                               |
| 4) Field Served *                 | - Field that the pipeline serves                        |
| 5) Contractor *                   | - Pipe Lay Contractor                                   |
| 6) Corr.Coating *                 | - Corrosion Coating, thickness and type                 |
| 7) Conc.Coating                   | - Concrete Coating type, thickness and type             |
| 8) Max.Const.Span                 | - Construction Maximum Allowable Span Length            |
| 9) Max.Op.Span                    | - Operational Maximum Allowable Span Length             |
| 10) Estimated Burial              | - Estimated Overall pipeline burial percent             |
| 11) Footpost Tol.                 | - Item Foot Post matching tolerance                     |
| 12) Retrofit Anodes Installed     | - Year Retrofit Anodes Installed.                       |
| 13) Orig Qty                      | - Number of Original Anodes                             |
| 14) Orig Type *                   | - Type of Original Anodes                               |
| 15) Orig Spacing                  | - Original Anodes Spacing (ft)                          |
| 16) Orig Dimensions Lngth         | - Original Anodes Length (in)                           |
| 17) Orig Dimensions Thickness     | - Original Anodes Thickness (in)                        |
| 18) Orig Dimensions Weight        | - Original Anodes Weight (lbs)                          |
| 19) Orig Design Life              | - Original Anodes Design Life                           |
| 20) Orig Bane Area                | - Original Anodes percentage Bare Area                  |
| 21) Orig Density                  | - Original Anodes Current Density (mA/ft <sup>2</sup> ) |
| 22) Orig Capacity                 | - Original Anodes Capacity (A hrs/lbs)                  |
| 23) Retrofit Qty                  | - Number of Retrofit Anodes installed                   |
| 24) Retrofit Type                 | - Type of RetrofitOriginal Anodes                       |
| 25) Retrofit Spacing              | - Retrofit Anodes Spacing (ft)                          |
| 26) Retrofit Dimensions Lngth     | - Retrofit Anodes Length (in)                           |
| 27) Retrofit Dimensions Thickness | - Retrofit Anodes Thickness (in)                        |
| 28) Retrofit Dimensions Weight    | - Retrofit Anodes Weight (lbs)                          |
| 29) Retrofit Design Life          | - Retrofit Anodes Design Life                           |
| 30) Retrofit Bane Area            | - Retrofit Anodes percentage Bare Area                  |
| 31) Retrofit Density              | - Retrofit Anodes Current Density (mA/ft <sup>2</sup> ) |
| 32) Retrofit Capacity             | - Retrofit Anodes Capacity (A hrs/lbs)                  |

Once the User has entered the last FIELD { Retrofit Capacity } and pressed the [ENTER] key, a confirmation bar at the bottom of the screen will appear;

{ \*\*\*\*\* Confirm Save to File (Y/N) : N \*\*\*\*\* }

To confirm the Users new entry, enter [Y] and the [ENTER]. This will create the new pipeline, else the User should enter [ENTER] on the [N] to return to the Pipeline Information screen.

See Also:

2 .. PIPELINE INSPECTION

See Also:

3 .. RISER DATA

See Also:

4 .. RISER INSPECTION

See Also:

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5 .. TECHNICAL INFO.(TIP)

See Also:

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**6 .. LIBRARY MAINTENANCE****FUNCTIONALITY**

The Library module provides access to user defined validation data lists. Most of those listings are supplied blank (with nothing in them), with you the user responsible for defining your own. This is supplied in this way since having these lists made up by an outside party would potentially mean that the terminology used would be incompatible with your own organizations standard practice.

Some of the listings are however already made up. This is because some of the Libraries include keywords that the system will specifically look for.

It is worth noting that there is NO facility to edit or delete any preexisting entry. This is because a change or deletion to this list would invalidate data already entered onto the system using these lists. The only acceptable maintenance activities are there to :

- Add a new record
- Edit the Item Description which is not used within the system proper i.e. it is there only for reference.

Adding or Editing Libraries files is carried out by manipulating data within the Data Screen Pick List i.e. not within an editing box. (refer COMMON FEATURES - EDITING DATA for more complete instructions)

**LIBRARY ITEMS**

The following itemizes all libraries currently defined within the system. In addition all fixed items (refer above) supplied with these Library files are listed.

QUARTERS TYPE  
DIVISION (ASSET)  
CONTRACTOR  
DIVING TYPE  
ITEM DESCRIPTIONS  
REPAIR TYPE  
CP EQUIPMENT  
CP METER  
UT EQUIPMENT  
UT METER  
MPI EQUIPMENT  
MPI LIGHT/INTENSITY  
MPI PARTICLE TYPE  
PROCEDURE/SPEC.  
INSPECTOR  
INSPECTOR QUAL.  
SOIL TYPE  
CLEANING METHOD  
MATERIAL SPEC.  
LOCALIZED CORROSION TYPES  
GENERAL CORROSION TYPES  
DEFECT TYPES  
ASSESSMENTS  
COATING CONDITION  
INSPECTION TYPE

---

See Also:

---

**7 .. SYSTEM ADMINISTRATION**

This part of CAIRS allows you to perform System Management on the data files.

It consists of a menu which lists the available facilities. The menu is displayed when you have selected the SYSTEM ADMINISTRATION option from the module main menu.

Only those users who have adequate privilege will be able to use the facilities.

The valid options for System Administration are dealt with in more detail in the subsequent chapters.

**1. PASSWORD MAINTENANCE**

Has the ability to add to and modify the list of CAIRS users and their privileges. This facility must be performed before new users access CAIRS or if an existing user's access privilege has changed. It also includes the ability to change passwords and clear an individual's "logged on to" CAIRS status.

**2. BACKUP UTILITIES**

This facility may not be available.

**3. DATA INTERFACE**

This facility allows you to receive and create CAIRS data in Survey Data File format. It therefore enables you to update your CAIRS system with data collected on a non-CAIRS survey computer or to copy inspection results from one CAIRS PC to another.

Note that any existing records for this inspection are not deleted.

**4. REINDEX**

If CAIRS notifies you of an indexing problem with the system; eg an irregular exit from system has corrupted one or more index files become corrupted. This utility will reestablish those damaged files.

**5. PACK**

This utility purges all core data files and should be run periodically. This will free unused space occupied by the CAIRS files and so result in a faster running system.

**6. CHANGE SINGLE/MULTI USER**

This configures CAIRS to run on either a stand-alone PC (single) or on a network or equivalent, where more than one person may require simultaneous access to the CAIRS data (multi).

**7. PRINTER CONTROL**

You can set up any graphics printer to work with the system using this utility (from Dot Matrix Printer to the latest Laser printer). You will need the printer manual to get the required setup strings and other codes.

**8. ERROR REPORTS**

This option forms part of the error reporting features of CAIRS.

If an error occurs in the system a report of this will document what went wrong and when it occurred.

**9. PRINT USER MANUAL/DOCUMENTATION**

This facility allows you to print out the contents of the Online Help screens. It is especially useful if this document is not at hand.

See Also:

---



■ PIPELINE SYSTEM

See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

**Pipeline Information****DATA SCREEN**

This screen is displayed after you have selected the PIPELINE DATA option from the MAIN MENU. It consists of a data screen featuring one line summaries of the available Pipelines.

The IDENT field identifies individual Pipelines consists of the Platforms (or other installations) that the pipeline flows from and to, the nominal Outside of the Pipeline and the service.

As the Pipeline Idents cannot be used as directory names Pipeline CAIRS allocates its own names eg 'PIPE023' for the directories that will hold each Pipeline's Data Set. These are included in the one line summary as the records may describe disused pipelines whose data has been deleted.

In addition to holding the Pipeline Descriptions it provides the means of selecting a pipeline's data set.

When you press the Right Arrow key, the highlighted Pipelines data set is accessed. If there is no data for the highlighted pipeline then you are advised and depending on your level of privilege you can copy blank tables to create the missing data set.

**DATA HELD**

FIELD NAME	FIELD DESCRIPTION	SHORTDESC
IDENT	Pipeline Identity	IDENT
CODE	Directory where Pipeline data is found	CODE
PLENGTH	Length of Pipeline	PLENGTH
INSTALLED	Year Pipeline Installed	INSTALLED
LATEST	Last General Pipeline Inspection	LATEST
PFIELD	Field that the pipeline serves	PFIELD
PCONTRAC	Pipe lay contractor	PCONTRAC
CORR CTG	Corrosion Coating, thickness and type	CORR CTG
CONCR CTG	Concrete Coating- type, thickness and weight	CONCR CTG
DYN SPTOL	Operating Max Allowable Span length	DYN SPTOL
CON SPTOL	Construction Max Allowable Span Length	CON SPTOL
ID NO_TOL	Item Foot Post matching tolerance	ID NO_TOL
DESC	General Pipeline Description	DESC
PBURIAL	Estimated Overall Pipeline Burial (percent)	PBURIAL
OA CAPAC	Original Anode Capacity (Ahrs / lb)	OA CAPAC
OA_DLIFE	Original Anode Design Life	OA_DLIFE
OA_LGTH	Original Anode Length (in)	OA_LGTH
OA_MA_FT	Original Anode Current Density (Ma/ft <sup>2</sup> )	OA_MA_FT
OA_PAREA	Original Anode percent Bare Area	OA_PAREA
OA_QTY	Number of Original Anodes	OA_QTY
OA_SPACE	Original Anode Spacing (ft)	OA_SPACE
OA_THK	Original Anode Thickness (in)	OA_THK
OA_TYPE	Original Anode Type	OA_TYPE
OA_WGHT	Original Anode Weight (lbs)	OA_WGHT
RETROANODE	Year Retrofit Anodes Installed	RETROANOD
RA_CAPAC	Retrofit Anode Capacity (Ahrs / lb)	RA_CAPAC
RA_DLIFE	Retrofit Anode Design Life	RA_DLIFE
RA_LGTH	Retrofit Anode Length (in)	RA_LGTH
RA_MA_FT	Retrofit Anode Current Density (Ma/ft <sup>2</sup> )	RA_MA_FT
RA_PAREA	Retrofit Anode percent Bare Area	RA_PAREA
RA_QTY	Number of Retrofit Anodes	RA_QTY
RA_SPACE	Retrofit Anode Spacing (ft)	RA_SPACE
RA_THK	Retrofit Anode Thickness (in)	RA_THK
RA_TYPE	Retrofit Anode Type	RA_TYPE
RA_WGHT	Retrofit Anode Weight (lbs)	RA_WGHT
MOD_DATE	Date Record was last Modified	MOD_DATE
MOD_USER	Id of user who last modified record	MOD_USER
CR_DATE	Date Record was created	CR_DATE
CR_USER	Id of User who last created record	CR_USER

These fields are maintained in the Pipeline Wall Thickness integrity CAIRS

LJE_FACT	Longitudinal Joint Efficiency factor for line	LJE_FACT
T_FACTOR	Temperature Factor for whole pipeline	T_FACTOR
MAXPRESS	Maximum Pressure for Weakest Pipeline Section	MAXPRESS
OP_PRESS	Pipeline Operating Pressure (psi)	OP_PRESS

The following fields are used by Pipeline CAIRS to record the existence of types of Objects.

ANOD_QTY	Last Number Allocated to ANOD_0 record	ANOD_QTY
CDAM_QTY	Last Number Allocated to CDAM_0 record	CDAM_QTY
CROS_QTY	Last Number Allocated to CROS_0 record	CROS_QTY
DEBR_QTY	Last Number Allocated to DEBR_0 record	DEBR_QTY
ITEM_QTY	Last Number Allocated to ITEM_0 record	ITEM_QTY
PDAM_QTY	Last Number Allocated to PDAM_0 record	PDAM_QTY
SPAN_QTY	Last Number Allocated to SPAN_0 record	SPAN_QTY
SUPP_QTY	Last Number Allocated to SUPP_0 record	SUPP_QTY

Notes on Entering Records:

The Pipeline Ident must be unique. The Platforms referred to in the Pipeline ident are not checked against the entries in the Platform CAIRS Platform Description tables.

The CODE is allocated by CAIRS.

Whenever you create a new record in this table a blank data set is created to hold its detailed information.

---

See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA ,  
► DATA VALIDATION

---

**Master Component Inventory****DATA SCREEN**

This screen is displayed after you have selected the Master List option from the PIPELINE DATA MENU.

It consists of a data screen that features one line summaries of all known objects or features on that pipeline.

This data screen allows you to look at all notable features on the pipeline at a glance. The features are arranged in increasing reference foot post order. The footpost at which the feature was first noted.

It provides you with the ability to examine all features on a section of the pipeline and to examine the nearest of features to each other.

Pressing the Right Arrow key selects the Component Category for the highlighted object. This provides you with more information about the feature and forms a route to the Inspection results them selves.

You cannot create, modify or delete records in this table directly. It is automatically updated when records are added to or deleted from the Object Category data tables. Therefore pressing the Enter, Insert and Delete keys has no effect.

---

See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

---

**Component Log****OBJECT DATA TABLES****INTRODUCTION**

This section of the User Documentation consists of detailed descriptions of the Physical Objects on the Pipelines.

The Objects uniquely identify features such as Anodes or Damage such as Loss of or Damage to Weight Coat.

To provide a total picture of the state of the Pipeline there is a summary master List of Objects. This enables you to see how close objects are to each another.

The information held in the object data tables typically consists of the Reference Footpost , ie where on the pipeline it can be found along with other details that are not considered to change from one year to another - the other details are held in the Inspection results Data tables.

As the information is held in type-specific data tables, certain events are described by linking entries in more than one table. Eg a Crossing where coating damage has occurred due to the failure of a supporting structure is described in three groups of tables; the entries in the Coating Damage and Supporting Structures tables are linked by quoting the Crossing's Id Number as the Related Id Number (REL\_ID).

As stated above the Object data tables include the data that is not considered likely to change. The link between the Inspection and Object data tables is the ID Number. This means that you can readily display the Object data by selecting the Object option from the /Data Manipulation Menu.

When you press the left arrow while looking at the one line summary screens, you will go back to the previous screen.

When you choose to enter a new object's details, you will first enter the footpost. A check is made to see if an object of that type at that FP has already been entered. If so, its details are displayed. If no such object has been recorded at that FP then you can continue to create it.

---

See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

---

**Pipeline Crossings Components****DATA SCREEN**

The Crossing data is displayed after you have selected;

- i) the Crossing option from the Pipeline Data menu;
- ii) any Crossing from the Master Listing, or
- iii) have completed reviewing the data in the Crossing Inspection results.

It consists of key information that details Crossings on the selected pipeline. The data screen lists object data for all recorded crossings. If access was via the MASTER COMPONENT listing then the matching record is highlighted.

Information on the Structures used at crossings is maintained in the SUPPORTING STRUCTURES data table.

Records are created in this table by suitably privileged users in two ways; either directly in this table or as an outcome of entering a crossing inspection result for a previously unidentified crossing. The Id No is automatically assigned. As records are created the relevant CROS QTY data item in the Pipeline Master record is augmented. When records are added to this table matching records are created in the Master Object List.

Records in this table can be deleted only if there are no inspection results associated with the highlighted record.

Pressing the Right Arrow key, while reviewing the data in this table results in the more specific data from the specific Inspection results data table being displayed. The most recent matching record (in terms of the ID\_NO) is initially highlighted although you can display all data in that table.

---

See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

---

**Inspectable Item Components****DATA SCREEN**

The Item Component data is displayed after you have selected:-

- i) the Item option from the Pipeline Data menu;
- ii) any Item from the Master Object Listing, or
- iii) have completed reviewing the data in the Item Inspection results.

The data screen lists data for all recorded Items. If access was via the Master Component listing then the matching record is highlighted.

Records are created in this table by suitably privileged users in two ways; either directly in this table or as an outcome of entering a Item inspection result for a previously unidentified Item.

The Id No is automatically assigned. As records are created the relevant ITEM\_QTY data item in the Pipeline Master record is augmented. When records are added to this table matching records are created in the Master List.

The Component] entered in this table can be related to a crossing record by stating the crossing's Id Number in the Related Id field.

Records in this table can be deleted only if there are no inspection results associated with the highlighted record.

Pressing the Right Arrow key, while reviewing the data in this table results in the more specific data from the specific Inspection results data table being displayed. The most recent matching record (in terms of the ID\_NO) is initially highlighted although you can display all data in that table.

---

See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

---

**Support Structure Components****DATA SCREEN**

The Supporting Structure Component data is displayed after you have selected;

- i) the Supporting Structure option from the Pipeline Data menu;
- ii) any Supporting Structure from the Master Object Listing, or
- iii) have completed reviewing the data in the Supporting Structure Inspection results.

The data screen lists object data for all recorded Supporting Structures. If access was via the Master Object listing then the matching record is highlighted.

The information in this table supplements the Crossing and Span data. The relevant Span or Crossing object ID number is described in the Rel\_id data item.

Records are created in this table by suitably privileged users in two ways; either directly in this table or as an outcome of entering a Supporting Structure inspection result for a previously unidentified Supporting Structure. The Id No is automatically assigned. As records are created the relevant SUPP\_QTY data item in the Pipeline Master record is augmented. When records are added to this table matching records are created in the Master Object List.

Records in this table can be deleted only if there are no inspection results associated with the highlighted record.

Pressing the Right Arrow key, while reviewing the data in this table results in the more specific data from the specific Inspection results data table being displayed. The most recent matching record (in terms of the ID\_NO) is initially highlighted although you can display all data in that table.

---

See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

---

**Anode Components****DATA SCREEN**

The Anode Object data is displayed after you have selected:-

- i) the Anode Object option from the Pipeline Data menu;
- ii) any Anode Object from the Master Object Listing, or
- iii) have completed reviewing the data in the Anode Inspection results.

The data screen lists object data for all recorded Anodes. If access was via the Master Object Listing then the matching record is highlighted.

There are two possible types of anodes - ORIGINAL and RETROFIT. Additional information about the two possible types of anodes' characteristics is stored in the Pipeline Master record. The Pipeline Header data at the top of the screen repeats key values from these fields.

Records are created in this table by suitably privileged users in two ways; either directly in this table or as an outcome of entering a Anode inspection result for a previously unidentified Anode.

The Id No is automatically assigned. As records are created the relevant ANOD\_QTY data item in the Pipeline Master record is augmented. When records are added to this table matching records are created in the Master Object List.

The objects entered in this table can be related to a crossing record by stating the crossing's Id Number in the Related Id field.

Records in this table can be deleted only if there are no inspection results associated with the highlighted record.

Pressing the Right Arrow key, while reviewing the data in this table results in the more specific data from the specific Inspection results data table being displayed. The most recent matching record (in terms of the ID\_NO) is initially highlighted although you can display all data in that table.

---

See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

---

**Span Components****DATA SCREEN**

The Span Object data is displayed after you have selected;

- i) the Span Object option from the Pipeline Data menu;
- ii) any Span Object from the Master Object Listing, or
- iii) have completed reviewing the data in the Span Inspection results.

The data screen lists object data for all recorded Spans. If access was via the Master Object listing then the matching record is highlighted.

Records are created in this table by suitably privileged users in two ways; either directly in this table or as an outcome of entering a Span inspection result for a previously unidentified Span. The Id No is automatically assigned. As records are created the relevant SPAN\_QTY data item in the Pipeline Master record is augmented. When records are added to this table matching records are created in the Master Object List.

The objects entered in this table can be related to a crossing record by stating the crossing's Id Number in the Related Id field.

Records in this table can be deleted only if there are no inspection results associated with the highlighted record.

Pressing the Right Arrow key, while reviewing the data in this table results in the more specific data from the specific Inspection results data table being displayed. The most recent matching record (in terms of the ID\_NO) is initially highlighted although you can display all data in that table.

---

See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

---

**Coating Damage Components****DATA SCREEN**

The Coating Damage Object data is displayed after you have selected;

- i) the Coating Damage Object option from the Pipeline Data menu;
- ii) any Coating Damage Object from the Master Object Listing, or
- iii) have completed reviewing the data in the Coating Damage Inspection results.

The data screen lists object data for all recorded instances of Coating Damages. If access was via the Master Object Listing then the matching record is highlighted.

Records are created in this table by suitably privileged users in two ways; either directly in this table or as an outcome of entering a Coating Damage inspection result for a previously unidentified instance of Coating Damage. The Id No is automatically assigned.

As records are created the relevant CDAM QTY data item in the Pipeline Master record is augmented. When records are added to this table matching records are created in the Master Object List.

The objects entered in this table can be related to a crossing record by stating the crossing's Id Number in the Related Id field.

Records in this table can be deleted only if there are no inspection results associated with the highlighted record.

Pressing the Right Arrow key, while reviewing the data in this table results in the more specific data from the specific Inspection results data table being displayed. The most recent matching record (in terms of the ID\_NO) is initially highlighted although you can display all data in that table.

---

See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

---

**Physical Damage Components****DATA SCREEN**

The Physical Damage Object data is displayed after you have selected;

- i) the Physical Damage Object option from the Pipeline Data menu;
- ii) any Physical Damage Object from the Master Object Listing, or
- iii) have completed reviewing the data in the Physical Damage Inspection results.

The data screen lists object data for all recorded instances of Physical Damages. If access was via the Master Object Listing then the matching record is highlighted.

Records are created in this table by suitably privileged users in two ways; either directly in this table or as an outcome of entering a Physical Damage inspection result for a previously unidentified instance of Physical Damage. The Id No is automatically assigned. As records are created the relevant PDAM QTY data item in the Pipeline Master record is augmented. When records are added to this table matching records are created in the Master Object List.

The objects entered in this table can be related to a crossing record by stating the crossing's Id Number in the Related Id field.

Records in this table can be deleted only if there are no inspection results associated with the highlighted record.

Pressing the Right Arrow key, while reviewing the data in this table results in the more specific data from the specific Inspection results data table being displayed. The most recent matching record (in terms of the ID\_NO) is initially highlighted although you can display all data in that table.

---

See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

---

**Debris Components**

The Debris Object data is displayed after you have selected;  
i) the Debris Object option from the Pipeline Data menu;  
ii) any Debris Object from the Master Object Listing, or  
iii) have completed reviewing the data in the Debris Inspection results.

The data screen lists object data for all recorded instances of Debris. If access was via the Master Object listing then the matching record is highlighted.

Records are created in this table by suitably privileged users in two ways; either directly in this table or as an outcome of entering a Debris inspection result for a previously unidentified instance of Debris.

The Id No is automatically assigned. As records are created the relevant DEBR\_QTY data item in the Pipeline Master record is augmented. When records are added to this table matching records are created in the Master Object List.

The objects entered in this table can be related to a crossing record by stating the crossing's Id Number in the Related Id field.

Records in this table can be deleted only if there are no inspection results associated with the highlighted record.

Pressing the Right Arrow key, while reviewing the data in this table results in the more specific data from the specific Inspection results data table being displayed. The most recent matching record (in terms of the ID\_NO) is initially highlighted although you can display all data in that table.

---

See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

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**Inspection Results**

This section describes the information held in the Inspection results data tables.

**INTRODUCTION**

The Inspection Results Tables can be grouped as follows:-

GROUP A TABLES - that add to the information held in the Object tables described in the previous section. These are; Crossings, Items, Supporting Structures, Anode Wastage, Spans, Coating Damage, Physical Damage and Debris.

The information consists of those features that are likely to change from one inspection to another. The absence of a results record for an inspection shows that a known object was not observed during that inspection.

GROUP B TABLES - that hold results from a specific survey; eg CP readings or Exposure readings. (A separate table holds the CP calibrations for the CP readings).

GROUP C TABLES - that supplement the other results, Photograph, Video and Comments. They are related to objects by their Related Id number data items.

As stated in the Introduction there is the facility to import files of inspection results into PIPELINE CAIRS. When results are being entered manually it is necessary to enter the CP readings first since these will be included in most of the other records.

The CP and Stab Readings may be displayed in the form of xy graphs.

There follows instructions on entering inspection results; these should be followed in order to ensure that the links between objects and their results are completed and that CP readings are copied into the other results.

a) Order for Entering Results

The results should be entered in the following order:-

- i. CP Results - since these are copied into most tables
- ii. Object Related Results, Physical Damage, Items, etc.
- iii. All others, Photograph Exposure, etc

b) Object Inspection Results

When you have chosen to enter a new record into one of the GROUP A Tables, the first field you complete is the Footpost.

This is then compared with the reference FP's for that type of object in the Master List of Objects.

If there is an object within the Item Footpost Matching Tolerance Limits (entered in the Pipeline's Master record) then its details are displayed, the FP you entered become the observed FP and the object record's ID-Number and FP are used in your inspection result.

If there is no matching object then you can create an object for this result (even if your privilege level does not allow you to enter records in the object tables directly).

After completing the object details in a box at the lower right hand side of the screen, you will be prompted to save the details. After you save it you continue to complete the inspection result and save that in the normal manner. If you do not save it, then you cannot complete entering the Inspection Result.

c) Specific and Supplementary

The Related ID Number field enables the results to be linked, and so should be correct.

When you have chosen to enter new records in these tables (excluding CP Results and Calibrations - which do not relate to specific objects), you will be able to complete the Related ID Number and FP fields.

The Related ID Number field can be completed with a valid object code eg. PD or I. If it is completed then the check for a matching object is limited to that type, otherwise any matching

object's ID number is used to label the result.

---

See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

---

**Pipeline Crossing Inspection****DATA SCREEN**

The Crossings Inspection Results data is displayed after you have selected either the Crossing Data option from the Inspection Results Data menu or any Crossing Object in the Crossing Object data table.

Information on the Supports used at crossings is maintained in the Supporting Structures data tables.

The data screen lists the inspection results that are specific to the crossing. Ancillary data is held in other results data tables.

If you had selected an item in the object data table then the most recent result is highlighted with the remaining results for that object. All records can be displayed. The data is initially indexed on a combination of the Id Number and the inverse inspection number so as to facilitate the comparison of results for one object over time.

If you had selected the Crossing Inspection results data from the Inspection Results Data menu then the other standard index is used and the results are grouped by Inspection Number (with the most recent one at the top) and Footpost.

When records are created in this table a check is made to see if there is a Crossing Object record within the tolerance limits set in the Pipeline Master record. If there is then the Footpost is replaced with the Reference Footpost held in the Object table and the Id Number is taken from the Object record. If there is no existing object record in the tolerance band, then you are prompted to create the object record.

The CP reading is copied from the nearest record in the CP Survey data table for that Inspection.

Ancillary Inspection observations and readings can be accessed via the Data Manipulation Menu ('/bar menu').

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See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

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**Item Inspection****DATA SCREEN**

The Item Inspection Results data is displayed after you have selected either the Item Data option from the Inspection Results Data menu or any Item Object in the Item Object data table.

The data screen lists the inspection results that are specific to the Item. Ancillary data is held in other results data tables.

If you had selected an Item in the object data table then the most recent result is highlighted with the remaining results for that object. All records can be displayed. The data is initially indexed on a combination of the Id Number and the inverse inspection number so as to facilitate the comparison of results for one object over time.

If you had selected the Item Inspection results data from the Inspection Results Data menu then the other standard index is used and the results are one at the top) and Footpost.

When records are created in this table a check is made to see if there is a Item Object record within the tolerance limits set in the Pipeline Master record. If there is then the Footpost is replaced with the Reference Footpost held in the Object table and the Id Number is taken from the Object record.

If there is no existing object record in the tolerance band, then you are prompted to create the object record.

The CP reading is copied from the nearest record in the CP Survey data table for that Inspection.

Ancillary Inspection observations and readings can be accessed via the Data Manipulation Menu ('/bar menu').

---

See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

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**Support Structure Inspection****DATA SCREEN**

The Supporting Structure Inspection Results data is displayed after you have selected either the Supporting Structure Data option from the Inspection Results Data menu or any Supporting Structure Object in the Supporting Structure Object data table.

The data screen lists the inspection results that are specific to the Supporting Structure. The information in this table supplements the Crossing and Span data. The relevant Span or Crossing object ID number is described in the Rel\_id data item. Ancillary data is held in other results data tables.

If you had selected an Supporting Structure in the object data table then the most recent result is highlighted with the remaining results for that object. All records can be displayed. The data is initially indexed on a combination of the Id Number and the inverse inspection number so as to facilitate the comparison of results for one object over time.

If you had selected the Supporting Structure Inspection results data from the Inspection Results Data menu then the other standard index is used and the results are grouped by Inspection Number (with the most recent one at the top) and Footpost.

When records are created in this table a check is made to see if there is a Supporting Structure Object record within the tolerance limits set in the Pipeline Master record. If there is, then the Footpost is replaced with the Reference Footpost held in the Object table and the Id Number is taken from the Object record. If there is no existing object record in the tolerance band, then you are prompted to create the object record.

The CP reading is copied from the nearest record in the CP Survey data table for that Inspection.

Ancillary Inspection observations and readings can be accessed via the Data Manipulation Menu ('/bar menu').

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See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

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**Anode Inspection****DATA SCREEN**

The Anode Inspection Results data is displayed after you have selected either the Anode Data option from the Inspection Results Data menu or any Anode Object in the Anode Object data table.

The data screen lists the inspection results that are specific to the Anode. Ancillary data is held in other results data tables.

If you had selected an Anode in the object data table then the most recent result is highlighted with the remaining results for that object. All records can be displayed. The data is initially indexed on a combination of the Id Number and the inverse inspection number so as to facilitate the comparison of results for one object over time.

If you had selected the Anode Inspection results data from the Inspection Results Data menu then the other standard index is used and the results are grouped by Inspection Number (with the most recent one at the top) and Footpost.

When records are created in this table a check is made to see if there is a Anode Object record within the tolerance limits set in the Pipeline Master record. If there is, then the Footpost is replaced with the Reference Footpost held in the Object table and the Id Number is taken from the Object record.

If there is no existing object record in the tolerance band, then you are prompted to create the object record.

The CP reading is copied from the nearest record in the CP Survey data table for that Inspection.

Ancillary Inspection observations and readings can be accessed via the Data Manipulation Menu ('/bar menu').

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See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

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**Span Inspection****DATA SCREEN**

The Span Inspection Results data is displayed after you have selected either the Span Data option from the Inspection Results Data menu or any Span Object in the Span Object data table.

The data screen lists the inspection results that are specific to the Span. Ancillary data is held in other results data tables.

If you had selected an Span in the object data table then the most recent result is highlighted with the remaining results for that object. All records can be displayed. The data is initially indexed on a combination of the Id Number and the inverse inspection number so as to facilitate the comparison of results for one object over time.

If you had selected the Span Inspection results data from the Inspection Results Data menu then the other standard index is used and the results are grouped by Inspection Number (with the most recent one at the top) and Footpost.

When records are created in this table a check is made to see if there is a Span Object record within the tolerance limits set in the Pipeline Master record. If there is then the Footpost is replaced with the Reference Footpost held in the Object table and the Id Number is taken from the Object record.

If there is no existing object record in the tolerance band, then you are prompted to create the object record.

The CP reading is copied from the nearest record in the CP Survey data table for that Inspection.

Ancillary Inspection observations and readings can be accessed via the Data Manipulation Menu ('/bar menu').

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See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

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**Coating Damage Inspection**

The Coating Damage Inspection Results data is displayed after you have selected either the Coating Damage Data option from the Inspection Results Data menu or any Coating Damage Object in the Coating Damage Object data table.

The data screen lists the inspection results that are specific to the Coating Damage. Ancillary data is held in other results data tables.

If you had selected an Coating Damage in the object data table then the most recent result is highlighted with the remaining results for that object. All records can be displayed. The data is initially indexed on a combination of the Id Number and the inverse inspection number so as to facilitate the comparison of results for one object over time.

If you had selected the Coating Damage Inspection results data from the Inspection Results Data menu then the other standard index is used and the results are grouped by Inspection Number (with the most recent one at the top) and Footpost.

When records are created in this table a check is made to see if there is a Coating Damage Object record within the tolerance limits set in the Pipeline Master record. If there is then the Footpost is replaced with the Reference Footpost held in the Object table and the Id Number is taken from the Object record. If there is no existing object record in the tolerance band, then you are prompted to create the object record.

The CP reading is copied from the nearest record in the CP Survey data table for that Inspection.

Ancillary Inspection observations and readings can be accessed via the Data Manipulation Menu ('/bar menu').

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See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

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**Physical Damage Inspection**

The Physical Damage Inspection Results data is displayed after you have selected either the Physical Damage Data option from the Inspection Results Data menu or any Physical Damage Object in the Physical Damage Object data table.

The data screen lists the inspection results that are specific to the Physical Damage. Ancillary data is held in other results data tables.

If you had selected an Physical Damage in the object data table then the most recent result is highlighted with the remaining results for that object. All records can be displayed. The data is initially indexed on a combination of the Id Number and the inverse inspection number so as to facilitate the comparison of results for one object over time.

If you had selected the Physical Damage Inspection results data from the Inspection Results Data menu then the other standard index is used and the results are grouped by Inspection Number (with the most recent one at the top) and Footpost.

When records are created in this table a check is made to see if there is a Physical Damage Object record within the tolerance limits set in the Pipeline Master record. If there is then the Footpost is replaced with the Reference Footpost held in the Object table and the Id Number is taken from the Object record. If there is no existing object record in the tolerance band, then you are prompted to create the object record.

The CP reading is copied from the nearest record in the CP Survey data table for that Inspection.

Ancillary Inspection observations and readings can be accessed via the Data Manipulation Menu ('/bar menu').

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See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

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**Debris Inspection****DATA SCREEN**

The Debris Inspection Results data is displayed after you have selected either the Debris Data option from the Inspection Results Data menu or any Debris Object in the Debris Object data table.

The data screen lists the inspection results that are specific to the Debris. Ancillary data is held in other results data tables.

If you had selected an Debris in the object data table then the most recent result is highlighted with the remaining results for that object. All records can be displayed. The data is initially indexed on a combination of the Id Number and the inverse inspection number so as to facilitate the comparison of results for one object over time.

If you had selected the Debris Inspection results data from the Inspection Results Data menu then the other standard index is used and the results are grouped by Inspection number (with the most recent one at the top) and Footpost.

When records are created in this table a check is made to see if there is a Debris Object record within the tolerance limits set in the Pipeline Master record. If there is then the Footpost is replaced with the Reference Footpost held in the Object table and the Id Number is taken from the Object record.

If there is no existing object record in the tolerance band, then you are prompted to create the object record.

The CP reading is copied from the nearest record in the CP Survey data table for that Inspection.

Ancillary Inspection observations and readings can be accessed via the Data Manipulation Menu ('/bar menu').

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See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

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**Stab Readings**

The Stab Readings data is displayed after you have selected the Stab Readings option from the Inspection Results Data menu.

The data screen lists the Stab Readings. The information in this table supplements data entered into the other results tables. The relevant object ID number is described in the ID\_Rel data item.

Initially the Stab Readings data is grouped by Inspection Number (with the most recent one at the top) and Footpost. By using the Data Manipulation Menu's Order option it is possible to switch to the other standard index which is a combination of the Id Number and the inverse inspection number so as to facilitate the comparison of results for one object over time.

The data can be displayed graphically by using the /G option. The graphs may also be saved for plotting on a HP7475 etc.

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See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

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**Photolog Entries****DATA SCREEN**

The Photo Log data is displayed after you have selected the Photo Log option from the Inspection Results Data menu.

The data screen lists the entries in Photo Log for the pipeline. The information in this table about film shot during the inspections, supplements data entered into the other results tables. The relevant object ID number is described in the ID\_Rel data item. Ancillary data is held in other results data tables.

Initially the Photo Log data is grouped by Inspection Number (with the most recent one at the top) and Footpost. By using the Data Manipulation Menu's Order option it is possible to switch to the other standard index which is a combination of the Id Number and the inverse inspection number so as to facilitate the comparison of results for one object over time.

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See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

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**VideoLog Entries****DATA SCREEN**

The Video Log data is displayed after you have selected the Video Log option from the Inspection Results Data menu.

The data screen lists the entries in Video Log for the pipeline. The information in this table about video footage used during the inspections, supplements data entered into the other results tables. The relevant object ID number is described in the ID\_Rel data item. Ancillary data is held in other results data tables.

Initially the Video Log data is grouped by Inspection Number (with the most recent one at the top) and Footpost. By using the Data Manipulation Menu's Order option it is possible to switch to the other standard index which is a combination of the Id Number and the inverse inspection number so as to facilitate the comparison of results for one object over time.

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See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

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**General Inspection Comments****DATA SCREEN**

The General Comments data is displayed after you have selected the General Comments option from the Inspection Results Data menu.

The data screen lists the entries in General Comments for the pipeline. The information in this table, miscellaneous observations, supplements data entered into the other results tables. The relevant object ID number is described in the ID\_Rel data item.

Initially the General Comments data is grouped by Inspection Number (with the most recent one at the top) and Footpost. By using the Data Manipulation Menu's Order option it is possible to switch to the other standard index which is a combination of the Id Number and the inverse inspection number so as to facilitate the comparison of results for one object over time.

There is the facility to enter multiple records if required.

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See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

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**Exposure Readings****DATA SCREEN**

The Exposure Readings data is displayed after you have selected the Exposure Readings option from the Inspection Results Data menu.

The data screen lists the Exposure Readings. The information in this table supplements data entered into the other results tables. The relevant object ID number is described in the ID\_Rel data item. Ancillary data is held in other results data tables.

Initially the Exposure Readings data is grouped by Inspection Number (with the most recent one at the top) and Footpost. By using the Data Manipulation Menu's Order option it is possible to switch to the other standard index which is a combination of the Id Number and the inverse inspection number so as to facilitate the comparison of results for one object over time.

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See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

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**CP Survey****DATA SCREEN**

The CP Survey Readings data is displayed after you have selected the CP Survey Readings option from the Inspection Results Data menu.

The data screen lists the CP Survey Readings. The information in this table supplements data entered into the other results tables. The CP readings are taken at regular intervals whether or not there are Objects or possible defects in the pipeline.

The CP Survey Readings data is grouped by Inspection Number (with the most recent one at the top) and Footpost.

These readings MUST be the first inspection results to be entered as the many of the other records feature the nearest CP reading to the observation.

The readings may be displayed in an xy graphs. These graphs may be plot on a HP7475 plotter or equivalent.

Details about the calibration of the CP equipment is held in a separate data table.

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See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

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**CP Calibration****DATA SCREEN**

The CP Calibrations data is displayed after you have selected the CP Calibrations option from the Inspection Results Data menu.

The data screen lists the CP Calibrations for the pipeline. Each record may in fact refer to several pipelines, dependent on the progress made during the day.

This information supplements data entered in the CP Survey results tables.

There is no validation between this table and the CP readings data table.

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See Also: ► EDITING DATA, ► RESERVED FIELDS , ► FREE TEXT DATA , ► DATA VALIDATION

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**Backup & Interface Utilities**

See Also:

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Backup

See Also:

**Restore**

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**See Also:**

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See Also:

Text Import

See Also:

Inspection History

See Also:



RISER SYSTEM

See Also:

Riser Information

See Also:

Master Component Inventory

See Also:

Component Log

See Also:

Inspectable Item Components

See Also:

Coating Damage Components

See Also:

**Coating Damage Components**

See Also:

Riser Clamps

See Also:

Inspection Results

See Also:

Inspected Items (Inspection)

See Also:

**Coating Damage Inspection**

See Also:

Physical Damage Inspection

See Also:

**Stab Readings**

See Also:

**Photo Log**

See Also:

Video Log

See Also:

General Comments

See Also:

**Backup & Interface Utilities**

See Also:

**Inspection History**

See Also:



**SYSTEM ADMINISTRATION**

This part of the system allows users to perform System Management on core data files.

These utilities are intended to give the individual responsible for controlling the CAIRS system a fuller insight into the organization of the system files.

The valid options for System Administration are dealt with in more detail in the subsequent chapters.

**PASSWORD MAINTENANCE**

The ability to change passwords is available to everyone either immediately after entering your User Name and password in the title screen on entering the system or through System Administration though the latter is only available to those with a suitably privileged password. On choosing the 'Password Maintenance' option from the System Administration Menu, you will be given the following options:-

0. Exit to System Administration Menu
1. Add a new user
2. Modify an existing user

You should choose the required option, both of which lead to the Password Maintenance Entry Screen.

**ADD A NEW USER**

The Password Maintenance Entry Screen will automatically appear allowing you to enter a NEW user.

**MODIFY AN EXISTING USER**

The "pop up" window will appear allowing you to select an existing user's details for modification. On selecting the desired option you will be presented with the Password Maintenance Entry screen in order to modify the selected record.

**ADDING/MODIFYING USERS & PASSWORDS**

You must enter the following data items:-

USER:	User Name
PASSWORD:	User specific password (not readable)
ACCESS PRIVILEGE:	Access privilege will determine which CAIRS functions are available to the individual.

The levels of access privilege are:-

**PRIVILEGE 1 : EXECUTIVE**

Highest level of authority for the system. All functions are available to users. User with this privilege should be responsible for the system.

**PRIVILEGE 2 : MANAGER**

All functions available except for 'Password Maintenance' (this function).

**PRIVILEGE 3 : SENIOR**

All functions available except "System Administration" includes the ability to edit Ship/Hull Details or Inspection Details Master records.

**PRIVILEGE 4 : OPERATOR**

Inspection Results Only. Full Reporting privilege.

**PRIVILEGE 5 : VIEW**

Read-only access to data. Full Reporting privilege.

**ADDITIONAL STATUS BAR OPTIONS**

**Clear:** CAIRS records who is currently accessing the data so that in a multiuser environment it is impossible for two users to access the system using the same User Name/Password combination simultaneously. If you have not finished using CAIRS properly, eg. if the computer is switched off while you are still in CAIRS, the next time you enter your user name to access an error message will

be displayed. This can be remedied by executing this option for the relevant user .

N.B. The following rules also exist for Password Maintenance

1. The user cannot delete the user name they are logged in under or modify their own access privilege.
2. Users without fully privileged access can only modify their password on entering the system.
3. If the system is being operated in a Multiuser environment (ie. a Novell Network) then the users' rights should be set up to accommodate the system.

IT IS IMPORTANT THAT FULLY PRIVILEGED USERS SHOULD ENSURE THAT ALL USER NAME/PASSWORD COMBINATIONS DO NOT HAVE 'LOGGED ON' STATUS. THIS WOULD RESULT IN NO ONE ABLE TO ACCESS THE SYSTEM... IF THIS DOES OCCUR, THE "CLRPASS.BAT" UTILITY SHOULD BE EXECUTED FROM THE \CAIRS DOS PROMPT.

**SYSTEM REGENERATION**

This is a housekeeping function which will reestablish all index files. This function should be run whenever you suspect index files have been corrupted by hardware failure.

Additionally this system is also used to remove records that have been marked for deletion. Please note this will speed up the system and release some disk space.

Whenever this option is executed you should ALWAYS ensure that nobody else is using CAIRS (ie. on a Multiuser system) and will not need to access the data at that particular time.

On selecting this option you will be asked to confirm that they want to carry this out. The user should enter Yes or No as appropriate.

Please note that depending on the volume of data stored within the system and PC specifications this process might take a significant time to complete.

**USER-DEFINED PRINTER CONTROL****USER-DEFINED PRINTER CONTROL**

On choosing the 'Printer Control' option from the System Administration menu the user will be given the following options;

0. Exit to System Administration Menu
1. Add a new Printer Definition
2. Modify an existing Printer Definition

The user should choose the required option; both of which will bring them into a Printer Control entry screen.

1. Printer Control Screen will automatically appear allowing the user to enter a NEW printer definition.

2. Pop up window will appear allowing the user to select the existing user which needs to be modified. On selecting the desired option the user will be presented with the Printer Definition entry screen in to modify the selected record.

The following data items in Printer Definition are, with those marked (\*), compulsory for entry;

NAME (\*) - C20  
Printer Name

DESCRIPTION - C50  
Printer Description

USA/UK (\*) - C2  
This relates to Paper Size  
  UK-A4 (11.7" x 8.25")  
  US-Quart (11" x 8.5")

SET UP PRINTER - C50  
Printer code allows user to specify relevant set up set up string depending on what default settings are; ie. condensed print, font changes etc.

RESET PRINTER - C50  
Printer code allows user to reset printer status to default.

BOLD ON - C20  
Printer code to set Bold Print On

BOLD OFF - C20  
Printer Code to set Bold Print Off

ITALICS ON - C20  
Printer Code to set Italic Print On

ITALICS OFF - C20  
Printer Code to set Italic Print Off

The latter six entries in Printer Control are to found by referring to the relevant Printer manual or the auxiliary font cartridge manual. These are not compulsory and reporting functions will operate normally without them. The user though may want to include these to enhance the quality of print report.

The above codes may vary from printer to printer but invariably follow the structure shown below;

CHR(27)+XXX      (Where XXX is the relevant code from above)

**ADDITIONAL OPTIONS**

Current -

This option allows the user to select the printer currently being displayed to be the default. The default is always displayed before electing to print so the user can confirm that it is the correct printer. In multiuser environments users may be connected to a multitude of printers but all users of this system MUST be connected for reporting purposes to the same type of printer. Note that this does not handle the direction of output to one or other of the available printers.

**Delete -**

The system does not allow the user to delete the default printer definition therefore another must be selected as default before it can be erased.

**PRINT USER MANUAL/DOCUMENTATION**

The user manual is formed from the help text which is accessible throughout CAIRS. This option prints out all the help text into the form of a manual with a title sheet and index. A window will appear on selecting this option, from the System Administration menu, asking you to confirm the print onto the displayed default printer. On confirmation the manual will be printed otherwise CAIRS will return to the calling menu.

**DATABASE TABLES**

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See Also:

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**DATA DICTIONARY**

See Also:

SCREEN DEFINITIONS

See Also:

**SCREEN DICTIONARY**

See Also:

MENUS

See Also:

MANUAL

See Also:

**CHANGE TO SINGLE/MULTI USER**

The following modes of operation are available for CAIRS.

Single-User - System which can only be accessed by one user at a time.

eg. running under MS/PC-DOS on a stand alone PC.

Multiuser - System which can enable more than one user to access the same data at the same time.

eg. PC terminal running under Novell Netware, Xenix, etc.

This option allows the user to reconfigure the other mode of operation.

When the menu option reads 'Change to Multiuser' this indicates that the system is presently in Single-user mode and vice-versa.

**Advice**

- Changing from Multi to Single-user should only be chosen after all users have exited from the system.
- When changing from Single to Multiuser the intended users' rights should be already set up in the relevant Operating System to accommodate the system. (Refer to the Operating System Manager's Documentation.)



FILE NAME		DATA DICTIONARY					
SYSTEM	- ANOD_MAT						
TYPE	- SYSTEM FILE						
DESCRIPTION	- ANODE MATERIAL TYPES						
FIELD NAME	DESCRIPTION	FORMAT	L	D	KEY? Y/N	REPORT TITLE	COMMENT
CODE	ANODE MATERIAL TYPES	C	10	0			
DESC	LIBRARY DESCRIPTION	C	50	0			

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY							
FILE NAME	-	CREDITTYPE					
SYSTEM	-						
TYPE	-	SYSTEM FILE					
DESCRIPTION	-	SEABED TYPE					
FIELD NAME		DESCRIPTION		FORMAT		KEY? Y/N	
			T L D				REPORT TITLE
CODE	SEABED TYPE		C 5 0				
DESC	LIBRARY DESCRIPTION		C 50 0				

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY					
FILE NAME	-	CDAMGRAD			
SYSTEM	-	SYSTEM FILE			
TYPE	-	COATING DAMAGE GRADE			
DESCRIPTION	-				
FIELD NAME	DESCRIPTION	FORMAT	T	L	D
CODE	COATING DAMAGE GRADE	C	5	0	
DESC	LIBRARY DESCRIPTION	C	50	0	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY							
FILE NAME	-	SYSTEM	-	TYPE	-	SYSTEM FILE	-
FIELD NAME	DESCRIPTION	FORMAT			KEY? Y/N	REPORT TITLE	COMMENT
AND		T	L	D	0	0	AND
ERASE					0	0	ERASE
OR					0	0	OR
STOP					0	0	STOP

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY							
FILE NAME	- CONTRACT	DESCRIPTION	FORMAT	KEY?	REPORT TITLE	COMMENT	
FIELD NAME			T L D	Y/N			
CODE	CONTRACTORS		C 20 0				
DESC	LIBRARY DESCRIPTION		C 50 0				

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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FILE NAME		DATA DICTIONARY						
SYSTEM	- CORR_CTG	DESCRIPTION		FORMAT		REPORT TITLE		COMMENT
TYPE	- SYSTEM FILE	FIELD NAME	DESCRIPTION	T	L	D	KEY? Y/N	
	- CORROSION COATING TYPE	CODE	CORROSION COATING TYPE	C	10	0		
	- LIBRARY DESCRIPTION	DESC	LIBRARY DESCRIPTION	C	50	0		

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY							
FILE NAME	-	DEF_POS					
SYSTEM	-	SYSTEM FILE					
TYPE	-						
DESCRIPTION	-	DEFECT POSITION/CATEGORY					
FIELD NAME	DESCRIPTION		FORMAT	T	L	D	KEY? Y/N
CODE	DEFECT POSITION/CATEGORY		C	20	0		
DESC	LIBRARY DESCRIPTION		C	50	0		

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

VERSION : Revision : 1.00  
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DATA DICTIONARY							
FILE NAME	DIVETYP	DESCRIPTION	FORMAT	KEY?	REPORT TITLE	COMMENT	
T	L	D	Y/N				
SYSTEM	-	SYSTEM FILE					
TYPE	-	SYSTEM FILE					
DESCRIPTION	-	TYPE OF DIVING OPERATIONS					
FIELD NAME		DESCRIPTION	T L D	Y/N	REPORT TITLE	COMMENT	
CODE	TYPE OF DIVING OPERATIONS		C 10 0				
DESC	LIBRARY DESCRIPTION		C 50 0				

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

VERSION : Revision : 1.00  
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DATA DICTIONARY						
FILE NAME	- EQ_TYPE	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT
FIELD NAME		DESCRIPTION	T L	D		
CODE	EQUIPMENT USED		C	20	0	
DESC	LIBRARY DESCRIPTION		C	50	0	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

VERSION : Revision : 1.00  
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DATA DICTIONARY							
FILE NAME	-	GTTRANS					
SYSTEM	-	SYSTEM FILE					
TYPE	-	TRANSFER SIGNATURE FILE					
DESCRIPTION		FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT
		CODE		T L D			CODE
		CR_DATE		D 8 0			CR_DATE
		CR_TIME		C 5 0			CR_TIME
		CR_USER		C 8 0			CR_USER
		IDENT		C 14 0			IDENT
		INSPNO		C 6 0			INSPNO
		MODULE		C 10 0			SYSTEM
		PLAT		C 4 0			PLAT
		TYPE		C 10 0			TYPE

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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FILE NAME		- TNSPCAT		DATA DICTIONARY			
SYSTEM	-	SYSTEM FILE	- <th data-cs="4" data-kind="parent"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th>				
TYPE	-	GENERIC INSPECTION CATEGORY	-				
DESCRIPTION	-						
FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT		
		T L D					
CODE	GENERIC INSPECTION CATEGORY	C	20	0			
DESC	LIBRARY DESCRIPTION	C	50	0			

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

VERSION : Revision : 1.00  
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DATA DICTIONARY						
FILE NAME	- ITEMDESC	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT
T	L	D				
CODE	ITEM DESCRIPTION	C	20	0		
DESC	LIBRARY DESCRIPTION	C	50	0		

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY							
FILE NAME	- LIB_REF	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT	
SYSTEM	- SYSTEM FILE		T L D				
TYPE	- USER LIBRARY	REFERENCE FILE					
DESCRIPTION							
CATEGORY			C 10 0		LIB_REF		
CR_DATE			D 8 0		CR_DATE		
CR_USER			C 4 0		CR_USER		
DESC			C 30 0		DESC		
TABLE			C 8 0		TABLE		
TEXT			C 8 0		TEXT		

KEY : [C]harter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

VERSION : Revision : 1.00  
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DATA DICTIONARY							
FILE NAME	-	MASTHOLD					
SYSTEM	-	SYSTEM FILE					
TYPE	-						
DESCRIPTION	-	HOLD FILE FOR BACKUP					
FIELD NAME	DESCRIPTION	FORMAT	T	L	D	KEY? Y/N	REPORT TITLE
DIR		C	8	0			SUB
IDENT		C	14	0			IDENT
INSPNO		C	6	0			INSPECTION
MODULE		C	10	0			SYSTEM
PLAT		C	4	0			PLAT
PLATFORM		C	4	0			PLATFORM

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY					
FILE NAME	- MEMO_FIL	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE
SYSTEM	- SYSTEM FILE		T L D		COMMENT
TYPE	- TEMPORARY MEMO FILE		M	10 0	
DESCRIPTION	- TEMPORARY MEMO FILE		C	10 0	FIELD_NAME
COMMENT	MEMO CONTENTS		C	10 0	VAL_DESC
FIELD_NAME	NAME OF MEMO FIELD		C	10 0	
VAL_DESC			C	10 0	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

VERSION : Revision : 1.00  
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DATA DICTIONARY					
FILE NAME	-	MGTTYPE			
SYSTEM	-	SYSTEM FILE			
TYPE	-	MARINE GROWTH TYPE			
DESCRIPTION	-	MARINE GROWTH TYPE			
FIELD NAME		DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE
CODE		MARINE GROWTH TYPE	T L D	C 4 0	
DESC		LIBRARY DESCRIPTION		C 50 0	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

VERSION : Revision : 1.00  
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FILE NAME		- NCR_ALL		DATA DICTIONARY			
SYSTEM	-	SYSTEM FILE		FORMAT	KEY? Y/N	REPORT TITLE	COMMENT
TYPE	-	NON-CONFORMANCE DETAILS		T L	D		
FIELD NAME	DESCRIPTION						
FIELDNAME	NAME OF TEXT FIELD			C	12	0	FIELDNAME
MESSAGE	COMMENT ON FIELD			C	50	0	COMMENT
RECORDNO	RECORD TO WHICH THIS REFERS			N	5	0	RECORDNUMB
STATUS	STATUS PASS OR FAIL			C	4	0	STATUS
TESTDATE	DATE TESTED			D	8	0	DATE
TESTTIME	TIME TESTED			C	8	0	TIME
TEXTFILE	NAME OF TEXT FILE			C	12	0	TEXTFILE
VALUE	VALUE THAT HAS BEEN CHECKED			C	30	0	CHECKVALUE

KEY :	[T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical	VERSION : Revision : 1.00
	[L]ength = Length of field	
	[D]ecimal = Number of decimal places	DATE : 12/17/92

DATA DICTIONARY							
FILE NAME	- NCR_IND						
SYSTEM	- SYSTEM FILE						
TYPE	- TEMPORARY NCR HOLD FILE						
DESCRIPTION	FIELD NAME	DESCRIPTION	FORMAT	T L	D	KEY? Y/N	REPORT TITLE
Comments within Variable Length "Memo" field	COMMENT		M	10	0		COMMENT
	CR_DATE		D	8	0		CR_DATE
	CR_TIME		C	5	0		CR_TIME
	CR_USER		C	8	0		CR_USER
Riser Reference Depth (of matching object)	DEPTH		N	4	0	DEPTH	MUST EXIST OR BE CREATED IN RELATED FILE
Depth 1	DEPTH1		N	4	0	Depth 1	
Depth 2	DEPTH2		N	4	0	Depth 2	
Distance 1	DIST1		N	3	0	Distance 1	
Distance 2	DIST2		N	3	0	Distance 2	
Reference Footpost	FP		N	8	3	FP	
IDENT	IDENT		C	14	0	IDENT	
Reference Number	ID_NO		C	6	0	ID NO	
	INSPNO		C	6	0	INSPNO	
	INSP_CAT		C	30	0	MENU	
Item Code	ITEM	Item Code	C	10	0	Item Code	If field not BLANK - X-REF Component List (NOM 10)
Item Description	ITEMDESC	Item Description	C	20	0	ITEMDESC	Validate against Library - Error Report 31
Start Leg	LEG1	Start Leg	C	2	0	Start Leg	
End Leg	LEG2	End Leg	C	2	0	End Leg	
Non-Conformance Message	NC_MESSAGE		C	30	0	NON-CONFOR	
Platform Code	PLAT	Platform Code	C	4	0	PLAT	EXISTS WITHIN PLATFORM DATABASE

**KEY :** [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FILE NAME	-	NCR_IND				
SYSTEM	-	SYSTEM FILE				
TYPE	-	TEMPORARY NCR HOLD FILE				
DESCRIPTION						
FIELD NAME	DESCRIPTION	FORMAT	T L	D	KEY? Y/N	REPORT TITLE
PLATFORM	Riser Platform Code	C	4	0	PLAT	EXISTS WITHIN PLATFORM DATABASE

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

VERSION : Revision : 1.00  
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DATA DICTIONARY						
FILE NAME	-	NCR_REST				
SYSTEM	-	SYSTEM FILE				
TYPE	-	NCR - FOR RESTORATION ABORT				
DESCRIPTION						
FIELD NAME	DESCRIPTION		FORMAT		REPORT TITLE	COMMENT
			T L	D	KEY? Y/N	
MESSAGE	COMMENT ON FIELD	C	50	0		COMMENT
TESTDATE	DATE TESTED	D	8	0		DATE
TESTTIME	TIME TESTED	C	8	0		TIME

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

VERSION : Revision : 1.00  
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DATA DICTIONARY							
FILE NAME	-	NCR_SUM					
SYSTEM	-	SYSTEM FILE					
TYPE	-	NON-CONFORMANCE SUMMARY					
DESCRIPTION							
FIELD NAME		DESCRIPTION		FORMAT		KEY? Y/N	REPORT TITLE
				T L	D		
FATAL		TOTAL NO RECORDS WITH FATAL IN TEXT FILE		N	5	0	FATAL
PASS		TOTAL NO RECORDS WITH PASS IN TEXT FILE		N	5	0	PASS
TESTDATE		DATE TESTED		D	8	0	DATE
TESTTIME		TIME TESTED		C	8	0	TIME
TEXTFILE		NAME OF TEXT FILE		C	12	0	TEXTFILE
TOTAL		TOTAL NO RECORDS IN TEXT FILE		N	5	0	TOTAL
WARN		TOTAL NO RECORDS WITH WARNING IN TEXT FILE		N	5	0	WARN

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

VERSION : Revision : 1.00  
 DATE : 12/17/92

		DATA DICTIONARY					
FILE NAME	- NCR_SUM1						
SYSTEM	- SYSTEM FILE						
TYPE	- TEMPORARY NCR SUM HOLD FILE						
DESCRIPTION	-						
FIELD NAME	DESCRIPTION	FORMAT	T L	D	KEY? Y/N	REPORT TITLE	COMMENT
CR_DATE			D	8	0		CR_DATE
CR_TIME			C	5	0		CR_TIME
CR_USER			C	8	0		CR_USER
FAIL	TOTAL NUMBER FAILED IN SUMMARY	N	6	0		FAILED	
IDENT		C	14	0		IDENT	
INSPNO		C	6	0		INSPNO	
INSP_CAT		C	30	0		MENU	
NC_MESSAGE	Non-Conformance Message	C	30	0		NON-CONFOR	
PLAT	Platform Code	C	4	0		PLAT	EXISTS WITHIN PLATFORM DATABASE
PLATFORM	Riser Platform Code	C	4	0		PLAT	EXISTS WITHIN PLATFORM DATABASE
TOTAL	TOTAL NUMBER IN SUMMARY	N	6	0		TOTAL	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY							
FILE NAME	-	OILFIELD					
SYSTEM	-	SYSTEM FILE					
TYPE	-	OTLFIELD IDENTIFICATION					
DESCRIPTION	-	OTLFIELD IDENTIFICATION					
FIELD NAME	DESCRIPTION		FORMAT	L	D	KEY? Y/N	REPORT TITLE
CODE	OILFIELD IDENTIFICATION		C	8	0		
DESC	LIBRARY DESCRIPTION		C	50	0		

COMMENT

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical	VERSION : Revision : 1.00
[L]ength = Length of field	
[D]ecimal = Number of decimal places	DATE : 12/17/92

FILE NAME		DATA DICTIONARY					
SYSTEM	-	FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT
TYPE	-			T L D			
		CR_DATE	DATE RECORD CREATED	D 8 0		CR_DATE	
		CR_USER	USER WHO CREATED RECORD	C 4 0		CR_USER	
		LOGGEDON	IS USER CURRENTLY LOGGED ON (YES/NO)	L 1 0		LOGGED_ON	
		MOD_DATE	DATE RECORD LAST MODIFIED	D 8 0		MOD_DATE	
		MOD_USER	USER WHO LAST MODIFIED RECORD	C 4 0		MOD_USER	
		OWN	USER HOME DIRECTORY	C 8 0		HOME	
		PASS	USER PASSWORD	C 8 0		PASSWORD	
		PRIV	USER PRIVILEGE	N 1 0		PRIVLAGE	
		USER	SYSTEM USER	C 4 0		USER	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY					
FILE NAME	PDAMCAT				
SYSTEM	SYSTEM FILE				
TYPE	PHYSICAL DAMAGE CATEGORY				
DESCRIPTION	FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE
	CODE	PHYSICAL DAMAGE CATEGORY	C    20    0		
	DESC	LIBRARY DESCRIPTION	C    50    0		

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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FILE NAME		DATA DICTIONARY						
SYSTEM	-							
TYPE	-	SYSTEM FILE						
DESCRIPTION	-							
FIELD NAME	DESCRIPTION	FORMAT	T	L	D	KEY? Y/N	REPORT TITLE	COMMENT
DDATE	DATE OF ERROR	D	8	0			DATE	
ER_MSG	ERROR MESSAGE	C	80	0			ER_MSG	
ER_NO	ERROR NUMBER	N	5	0			ERROR NO.	
KODE	PROGRAM CODE ERROR	C	120	0			CODE	
LINE_NO	PROGRAM LINE NUMBER OF CODE ERROR	N	8	0			LINE_NO	
MODUL	SYSTEM MODULE WHERE ERROR OCCURRED	C	80	0			MODULE	
NOTES	ANY NOTES ON SYSTEM ERROR	M	10	0			NOTES	
TTIME	TIME ERROR OCCURRED	C	8	0			TIME	
CONDENSE	PRINTER STRING TO SET UP CONDENSED PRINT	C	100	0			CONDENSE	
CR_DATE	DATE RECORD CREATED	D	8	0			CR_DATE	
CR_USER	USER WHO CREATED RECORD	C	4	0			CR_USER	
DEFAULT	DEFAULT PRINTER (YES/NO)	L	1	0			DEFAULT	
LANDSCAPE	PRINTER STRING TO SET UP LANDSCAPE ORIENTATION	C	100	0			LANDSCAPE	
MOD_DATE	DATE RECORD LAST MODIFIED	D	8	0			MOD_DATE	
MOD_USER	USER WHO LAST MODIFIED RECORD	C	4	0			MOD_USER	
NORMAL	PRINTER STRING TO SET UP NORMAL SIZE PRINT	C	100	0			NORMAL	
PORTRAIT	PRINTER STRING TO SET UP PORTRAIT ORIENTATION	C	100	0			PORTRAIT	
PTRDESC	PRINTER DESCRIPTION	C	20	0			PRINTER	
PTRNAME	PRINTER NAME	C	20	0			PRINTER	
RESET	PRINTER STRING TO RESET PRINTER TO DEFAULT SETTING	C	100	0			RESET	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

VERSION : Revision : 1.00

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DATA DICTIONARY						
FILE NAME	-	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT
SYSTEM	-	SYSTEM FILE	T L D			
TYPE	-		C 4 0		US_UK	
DESCRIPTION	-					
FIELD NAME						
US_UK	U.K. OR U.S. SIZED PAPER					

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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		DATA DICTIONARY				
FILE NAME	- SOILTYPE	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT
SYSTEM TYPE	- SYSTEM FILE		T L	D		
DESCRIPTION	- SEABED SOIL TYPES					
CODE	SEABED SOIL TYPES		C	10	0	
DESC	LIBRARY DESCRIPTION		C	50	0	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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FILE NAME		DATA DICTIONARY						
SYSTEM	- SRCTEMP							
TYPE	- SYSTEM FILE							
DESCRIPTION	- TEMPORARY SEARCH FILE							
FIELD NAME	DESCRIPTION	FORMAT	T	L	D	KEY? Y/N	REPORT TITLE	COMMENT
CONTIN	Continuation Variable	C	5	0			CONTIN	
SRC_ALIAS	SEARCH ALIAS RELATED TO Search Variable 1	C	8	0			SRC_alias	
SRC_CLAUSE	Search Clause	C	150	0				
SRC_VAR1	Search Variable 1	C	20	0			SRC_VAR1	
SRC_VAR2	Search Variable 2	c	5	0			SRC_VAR2	
SRC_VAR3	Search Variable 3	C	20	0			SRC_VAR3	

KEY : [C]harter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY							
FILE NAME - SYSTEM TYPE DESCRIPTION	FIELD NAME	DESCRIPTION	FORMAT	T L D	KEY? Y/N	REPORT TITLE	COMMENT
=	EQUAL TO	CNDM		0 0	0		=
#	NOT EQUAL TO	CND		0 0	0		#
\$	CONTAINS	CM		0 0	0		\$
<	LESS THAN	CNDM		0 0	0		<
<=	LESS THAN OR EQUAL	CNDM		0 0	0		<=
>	GREATER THAN	CNDM		0 0	0		>
>=	GREATER THAN OR EQUAL	CNDM		0 0	0		>=

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FILE NAME	-	SUPERVENT				
SYSTEM	-	SYSTEM FILE				
TYPE	-	SUPPORT STRUCTURE EVENT				
DESCRIPTION	-	SUPPORT STRUCTURE EVENT				
FIELD NAME		DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT
			T L D			
CODE		SUPPORT STRUCTURE EVENT	C 8 0			
DESC		SUPPORT STRUCTURE EVENT DESCRIPTION	C 50 0			

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY					
FILE NAME	-	SURSECOND			
SYSTEM	-	SYSTEM FILE			
TYPE	-	SURFACE CONDITION TYPES			
DESCRIPTION	-	SURFACE CONDITION TYPES			
FIELD NAME		DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE
			T L D		
CODE	CODED INSPECTION TYPE		C 20 0		
DESC	LIBRARY DESCRIPTION		C 50 0		

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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FILE NAME		DATA DICTIONARY					
SYSTEM	- TIP	FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT
TYPE	- SYSTEM FILE			T L	D		
DESCRIPTION	- TECHNICAL INFORMATION POOL						
AUTHOR	AUTHOR OF KEYWORD DEFINITION	AUTHOR	C 10 0			AUTHOR	
CATEGORY	KEY WORD CATEGORY	CATEGORY	C 30 0			CATEGORY	
CR_DATE	DATE CREATED	CR_DATE	D 8 0			CR_DATE	
CR_USER	USER WHO CREATED RECORD	CR_USER	C 4 0			CR_USER	
DATE	DATE ENTRY ADDED	DATE	D 8 0			DATE	
DETAILS	KEY WORD DEFINITION	DETAILS	M 10 0			DEFINITION	
KEY_WORD	KEY WORD	KEY WORD	C 10 0			KEY WORD	
MOD_DATE	DATE RECORD LAST MODIFIED	MOD_DATE	D 8 0			MOD_DATE	
MOD_USER	USER WHO LAST MODIFIED RECORD	MOD_USER	C 4 0			MOD_USER	
SOURCE	SOURCE OF TECHNICAL INFORMATION	SOURCE	C 30 0			SOURCE	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FILE NAME	-	UDRTEMP				
SYSTEM	-					
TYPE	-	SYSTEM FILE				
DESCRIPTION	-	TEMPORARY UDR FILE				
FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT	
UDR_EXP		C 254	0	UDR_EXP		
UDR_TIT		C 254	0	UDRTEMP		

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY					
FILE NAME	- VESS_ID	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE
SYSTEM	- SYSTEM FILE		T L D		COMMENT
TYPE	- SURVEY VESSELS		C 20 0		
DESCRIPTION	- SURVEY VESSELS		C 50 0		
FIELD NAME	DESCRIPTION				
CODE	SURVEY VESSELS				
DESC	LIBRARY DESCRIPTION				

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FILE NAME	-	WTYPE				
SYSTEM	-	SYSTEM FILE				
TYPE	-	TYPE OF WORK DONE				
DESCRIPTION	-	TYPE OF WORK DONE				
FIELD NAME	DESCRIPTION		FORMAT	KEY? Y/N	REPORT TITLE	COMMENT
CODE	TYPE OF WORK DONE		C 15 0			
DESC	LIBRARY DESCRIPTION		C 50 0			

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FILE NAME	- ANODE SYSTEM TYPE DESCRIPTION	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT
FIELD NAME			T L	D		
ANDEP	Anode Depletion Grade (1-4)		N	1	0	G
COMMENT	Comments within Variable Length "Memo" field		M	10	0	COMMENT
CP	Nearest CP Reading (mV)		N	5	0	CP
CR_DATE	Date Record was created		D	8	0	CR_DATE
CR_USER	Id of User who last created record		C	8	0	CR_USER
DESC	Pipeline Identity		C	14	0	Pipeline
FP	Reference Footpost (of matching object) (kft)		N	8	3	FP
IDENT	Pipeline Identity		C	14	0	Pipeline
ID_NO	Reference Number (of matching object)		C	6	0	ID NO
ID_REL	Related Inspectable Component		C	6	0	REL-ID
INSPNO	Inspection Code - format mm/jy		C	6	0	INSPNO
MOD_DATE	Date Record was created		D	8	0	MOD_DATE
MOD_USER	Id of User who last modified record		C	8	0	MOD_USER
OBS_FP	Observed Footpost (kft)		N	6	3	OBS FP
OPERATING	Is the Anode Working [Y,N]		C	1	0	REL-ID
OUTPUT	Calculated Output (mA)		N	5	0	OUTPUT
REMLIFE	Remaining Life (Years 99 if greater than 99)		N	2	0	YR

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY							
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FIELD NAME	DESCRIPTION	FORMAT	T L	D	KEY? Y/N	REPORT TITLE	COMMENT
ANTYPE	Type of Anode [ORIGINAL , RETROFIT ]	C	10	0		ANODE TYPE	
CR_DATE	Date Record was created	D	8	0		CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
CR_USER	Id of User who last created record	C	8	0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL
FP	Reference Footpost (kft)	N	8	3		FP	
IDENT	Pipeline Identity	C	14	0		PIPELINE	EXISTS WITHIN PDESCRIP DATABASE
ID_NO	Reference Number of object	C	6	0		ID NO	UNIQUE WITHIN MAST_0 & ANOD_0
ID_REL	Related Inspectable Component	C	6	0		REL-ID	
MOD_DATE	Date Record was created	D	8	0		MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
MOD_USER	Id of User who last modified record	C	8	0		MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL

KEY : [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT	
COMMENT	Comments within Variable Length "Memo" field	M 10 0		COMMENT	WAS FIXED LENGTH CHARACTER OF LENGTH = 60	
CP	Nearest CP Reading (mV)	N 5 0		CP		
CR_DATE	Date Record was created	D 8 0		CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
CR_USER	Id of User who last created record	C 8 0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
FP	Reference Footpost (of matching object)	N 8 3		FP	MUST EXIST OR BE CREATED IN RELATED FILE	
IDENT	Pipeline Identity	C 14 0		Pipeline	EXISTS WITHIN PDESCRIP DATABASE	
ID_NO	Reference Number (of matching object)	C 6 0		ID NO	MUST EXIST OR BE CREATED IN RELATED FILE	
ID_REL	Related Inspectable Component	C 6 0		REL-ID		
INSPNO	Inspection Code - format nnn/yy	C 6 0		INSPNO	EXISTS WITHIN WORKPIPE DATABASE	
LGTH	Length of Coating Damage (ft)	N 3 0		LEN		
MOD_DATE	Date Record was created	D 8 0		MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
MOD_USER	Id of User who last modified record	C 8 0		MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
OBS_FP	Observed Footpost (kft)	N 6 3		OBS FP		

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
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FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT	
CR_DATE	Date Record was created	D 8 0		CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
CR_USER	Id of User who last created record	C 8 0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
FP	Reference Footpost (kft)	N 8 3	FP			
GRADE	Grade of Damage (formally MAJOR or MINOR) COATING	C 5 0	GRADE	CHANGED TO LIBRARY VALIDATION - ERROR 16 & 25		
IDENT	Pipeline Identity	C 14 0	Pipeline	EXISTS WITHIN PDESCRIP DATABASE		
ID_NO	Reference Number of object	C 6 0	ID NO	UNIQUE WITHIN MAST_0 & CDAM_0		
ID_REL	Related Inspectable Component	C 6 0	REL-ID			
MOD_DATE	Date Record was created	D 8 0	MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL		
MOD_USER	Id of User who last modified record	C 8 0	MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL		

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT	
T	L	D				
COMMENT	Comments within Variable Length "Memo" field	M	10	0	COMMENT	WAS FIXED LENGTH CHARACTER OF LENGTH = 70
CONT_REF	Continuation Number for Comments	N	2	0	#	NOT REQUIRED - KEPT TO BE CONSISTANT WITH OLD DATA
CR_DATE	Date Record was created	D	8	0	CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
CR_USER	Id of User who last created record	C	8	0	CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL
FP	Observed Footpost (kft)	N	8	3	FP	
IDENT	Pipeline Identity	C	14	0	Pipeline	EXISTS WITHIN PDESCRIP DATABASE
ID_CODE	Not Recorded - Included for PL34 Import	C	2	0	ID_CODE	
ID_REL	Related Inspectable Component	C	6	0	REL-ID	
INSPNO	Inspection Code - format nn/yy	C	6	0	INSPNO	EXISTS WITHIN WORKPIPE DATABASE
MOD_DATE	Date Record was created	D	8	0	MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
MOD_USER	Id of User who last modified record	C	8	0	MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL
SUBJECT	Category of Subject (if applicable)	C	8	0	SUBJECT	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FILE NAME SYSTEM TYPE DESCRIPTION	FIELD NAME	DESCRIPTION	FORMAT T L D	KEY? Y/N	REPORT TITLE	COMMENT
CPCALIB	ADV1000	Pre-Dive -1000mV Check	N 6 0		ADV1000	
PIPELINE SUBSEA	ADV_500	Pre-Dive -500mV Check	N 5 0		ADV_500	
SYSTEM FILE	ADV_600	Pre-Dive -600mV Check	N 5 0		ADV_600	
CP CALIBRATION RECORD	ADV_700	Pre-Dive -700mV Check	N 5 0		ADV_700	
	ADV_800	Pre-Dive -800mV Check	N 5 0		ADV_800	
	ADV_900	Pre-Dive -900mV Check	N 5 0		ADV_900	
	ADV_ACC	Acceptable Pre-Dive [Y,N]	C 1 0		ADV_ACC	Acceptable Pre-Dive (YES or NO)
	CALIB_NO	Calibration number	N 2 0		CAL	
COMMENT	Comments within Variable Length "Memo" field	M 10 0		COMMENT	WAS FIXED LENGTH CHARACTER OF LENGTH = 50	
CR_DATE	Date Record was created	D 8 0		CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
CR_USER	Id of User who last created record	C 8 0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
IDENT	Pipeline Identity	C 14 0		Pipeline	EXISTS WITHIN PDESCRIP DATABASE	
IDVZINC	In-Dive Zinc -1040mV Check	N 6 0		IDVZINC		
IDV_ACC	Acceptable In-Dive [Y,N]	C 1 0		IDV_ACC	Acceptable In-Dive (YES or NO)	
INSPNO	Inspection Code - format nnn/yy	C 6 0		INSPNO	EXISTS WITHIN WORKPIPE DATABASE	
MOD_DATE	Date Record was created	D 8 0		MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
MOD_USER	Id of User who last modified record	C 8 0		MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
PDV1000	Post-Dive -1000mV Check	N 6 0		PDV1000		
PDV_500	Post-Dive -500mV Check	N 5 0		PDV_500		
PDV_600	Post-Dive -600mV Check	N 5 0		PDV_600		

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FILE NAME	-	CPCALIB				
SYSTEM	-	PIPELINE SUBSEA				
TYPE	-	SYSTEM FILE				
DESCRIPTION	-	CP CALIBRATION RECORD				
FIELD NAME		DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT
PDV_700		Post-Dive -700mV Check	T L D	N 5 0	PDV_700	
PDV_800		Post-Dive -800mV Check	T L D	N 5 0	PDV_800	
PDV_900		Post-Dive -900mV Check	T L D	N 5 0	PDV_900	
PDV_ACC		Acceptable Post-Dive [Y,N]	T L D	C 1 0	ACC	Acceptable Post-Dive (YES or NO)
PROBE		CP Probe Type Used	T L D	C 20 0	PROBE	
PROBE_SN		CP Probe Serial Number	T L D	C 14 0	SERIAL	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY								
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FILE NAME	DESCRIPTION	FORMAT	T	L	D	KEY? Y/N	REPORT TITLE	COMMENT
CPSU_I	CP Reading at this Footpost (mV)	N	5	0		CP		
CP	CP Reading at this Footpost (mV)	N	5	0		CP		
CR_DATE	Date Record was created	D	8	0		CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
CR_USER	Id of User who last created record	C	8	0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
FP	Observed Footpost (kft)	N	8	3		FP		
IDENT	Pipeline Identity	C	14	0		Pipeline	EXISTS WITHIN PDESCRIP DATABASE	
INSPINO	Inspection Code - format rrrr/yy	C	6	0		INSPINO	EXISTS WITHIN WORKPIPE DATABASE	
MOD_DATE	Date Record was created	D	8	0		MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
MOD_USER	Id of User who last modified record	C	8	0		MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL	

KEY : [I]type = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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FILE NAME		DATA DICTIONARY									
SYSTEM	- CROS_I										
TYPE	- PIPELINE SUBSEA										
DESCRIPTION	- CROSSING INSPECTION RESULTS										
FIELD NAME	DESCRIPTION	FORMAT	T	L	D	KEY? Y/N	REPORT TITLE	COMMENT			
CDIST	Separation Distance (in)	N	2	0		SD					
COMMENT	Comments within Variable Length "Memo" field	M	10	0		COMMENT		WAS FIXED LENGTH CHARACTER OF LENGTH = 60			
CP	Nearest CP Reading (mV)	N	5	0		CP					
CR_DATE	Date Record was created	D	8	0		CR_DATE		UPDATED TO MAINTAIN AUDIT TRAIL			
CR_USER	Id of User who last created record	C	8	0		CR_USER		UPDATED TO MAINTAIN AUDIT TRAIL			
ELECT_INT	Is there electrical interference [Y,N]	C	1	0		ELECT_INT		IS THERE ELECTRICAL INTERFERENCE ? - ERROR 123			
FP	Reference Footpost (of matching object) (kft)	N	8	3		FP		MUST EXIST OR BE CREATED IN RELATED FILE			
IDENT	Pipeline Identity	C	14	0		PIPELINE		EXISTS WITHIN PDESCRIP DATABASE			
ID_NO	Reference Number (of matching object)	C	6	0		ID NO		MUST EXIST OR BE CREATED IN RELATED FILE			
INSPNO	Inspection Code - format rnn/yy	C	6	0		INSPNO		EXISTS WITHIN WORKPIPE DATABASE			
MOD_DATE	Date Record was created	D	8	0		MOD_DATE		UPDATED TO MAINTAIN AUDIT TRAIL			
MOD_USER	Id of User who last modified record	C	8	0		MOD_USER		UPDATED TO MAINTAIN AUDIT TRAIL			
OBS_FP	Observed Footpost (kft)	N	6	3		OBS FP					

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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FILE NAME		DATA DICTIONARY					
SYSTEM	CROS_0	DESCRIPTION		FORMAT	KEY? Y/N	REPORT TITLE	COMMENT
TYPE	- PIPELINE SUBSEA	CLOCKWISE ANGLE formed with Crossing Line		T L D		CANGLE	NEW VALIDATION
CBEDFIRM	- SYSTEM FILE	Seabed Firmness [FIRM,SOFT] - Ability to Bear Load		C 5 0		SEABED	NEW FIELD ADDED BY ASL/KK FOR FIRMNESS
CBEDTYPE	- CROSSINGS	Seabed Soil Type		C 5 0		CBEDTYPE	NEW VALIDATION
CDAM	Coating Damage at the Crossing [N/A,YES,NO]		C 3 0		CDAM	Coating Damage observed at the Crossing-ERROR 51	
COOTHER	Identity of crossing pipeline		C 14 0		COOTHER	EXIST IN PDESCRIP AND NOT THE CURRENT PIPELINE	
CR_DATE	Date Record was created		D 8 0		CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
CR_SUPP	Number of Supports for Crossing		N 2 0		SUPTS USED		
CR_USER	Id of User who last created record		C 8 0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
CTYPE	Crossing Pipeline is [OVER,UNDER] this one		C 5 0		OVER/UNDER	OVER or UNDER crossing pipeline	
FP	Reference Footpost (kft)		N 8 3		FP		
IDENT	Pipeline Identity		C 14 0		Pipeline	EXISTS WITHIN PDESCRIP DATABASE	
ID_NO	Reference Number of object		C 6 0		ID NO	UNIQUE WITHIN MAST_0 & CROS_0	
MOD_DATE	Date Record was created		D 8 0		MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
MOD_USER	Id of User who last modified record		C 8 0		MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
OTH_FP	Ref FP of Crossing on Other Line (kft)		N 6 3		OTH FP	XCHECK CROS_0 FOR FP OF OTHER LINE	
OTH_ID_NO	Ref Number of Crossing on other line		C 6 0		OTH ID	XCHECK CROS_0 FOR ID_NO OF OTHER LINE	
PDAM	Physical Damage at the Crossing [N/A,YES,NO ]		C 3 0		PDAM	Physical Damage observed at the Crossing-ERROR 51	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY								
FIELD NAME	DESCRIPTION	FORMAT	T	L	D	KEY? Y/N	REPORT TITLE	COMMENT
COMMENT	Comments within Variable Length "Memo" field	M	10	0				WAS FIXED LENGTH CHARACTER OF LENGTH = 60
CP	Nearest CP Reading (mV)	N	5	0			CP	
CR_DATE	Date Record was created	D	8	0			CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
CR_USER	Id of User who last created record	C	8	0			CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL
DIST	Distance from Pipeline (to nearest 0.5 ft)	N	4	1			DIST	
FP	Reference Footpost (of matching object) (kft)	N	8	3			FP	MUST EXIST OR BE CREATED IN RELATED FILE
IDENT	Pipeline Identity	C	14	0			PIPELINE	EXISTS WITHIN PDESCRIP DATABASE
ID_NO	Reference Number (of matching object)	C	6	0			ID NO	MUST EXIST OR BE CREATED IN RELATED FILE
ID_REL	Related Inspectable Component	C	6	0			REL-ID	
INSPNO	Inspection Code - format nnnn/yy	C	6	0			INSPNO	EXISTS WITHIN WORKPIPE DATABASE
MOD_DATE	Date Record was created	D	8	0			MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
MOD_USER	Id of User who last modified record	C	8	0			MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL
OBS_FP	Observed Footpost (kft)	N	6	3			OBS FP	
PORTSTAR	Debris to PORT, STBD or ON Pipe [PORT,STBD,ON ]	C	4	0			SIDE	Debris to PORT, STBD or ON Pipeline
PULL_CURR	Is Debris Pulling Current [Y,N]	C	1	0			PULL_CURR	IS THE DEBRIS PULLING CURRENT Y/N - ERROR 129

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT	
T	L	D				
CR_DATE	Date Record was created	D	8	0	CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
CR_USER	Id of User who last created record	C	8	0	CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL
DAMAGE	Damage caused [YES,NO ]	C	3	0	DAM	Damage caused (YES or NO)
DESC	Debris Description	C	40	0	DESC	
DIMENS	Dimensions of Debris (Length,Width,Height in ft)	C	14	0	DIMENSIONS	
FOUND	Year that debris first observed	N	2	0	YR	
FP	Reference Footpost (kft)	N	8	3	FP	
IDENT	Pipeline Identity	C	14	0	Pipeline	EXISTS WITHIN PDESCRIP DATABASE
ID_NO	Reference Number of object	C	6	0	ID_NO	UNIQUE WITHIN MAST_0 & DEBR_0
ID_REL	Related Inspectable Component	C	6	0	REL-ID	
MOD_DATE	Date Record was created	D	8	0	MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
MOD_USER	Id of User who last modified record	C	8	0	MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL
REMOVED	Debris removed [YES,NO ]	C	3	0	RMV	Debris Removed (YES or NO)

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT	
T	L	D				
BURLLEN	Length of Pipeline Burial (ft)	N 4 0		LGTH		
CP	Nearest CP Reading (mV)	N 5 0		CP		
CR_DATE	Date Record was created	D 8 0		CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
CR_USER	Id of User who last created record	C 8 0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
EXPREAD	Exposure Reading (kft)	N 5 2		EXPO READ		
EXPTYPE	Inspected Line Status [S,E,B]	C 1 0		EXPO TYPE	Exposure Status (Spanning, Exposed, Buried)	
FP	Observed Footpost (kft)	N 8 3		OBS FP		
IDENT	Pipeline Identity	C 14 0		Pipeline	EXISTS WITHIN PDESCRIP DATABASE	
ID_CODE	Not Recorded - Included for PL34 Import	C 2 0		ID_CODE		
ID_REL	Related Inspectable Component	C 6 0		REL-ID		
INSPNO	Inspection Code - format rrrr/yy	C 6 0		INSPNO	EXISTS WITHIN WORKPIPE DATABASE	
MOD_DATE	Date Record was created	D 8 0		MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
MOD_USER	Id of User who last modified record	C 8 0		MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY							
FILE NAME	ITEM I	PIPELINE SUBSEA					
SYSTEM	-						
TYPE	-	SYSTEM FILE					
DESCRIPTION	-	ITEMS INSPECTION RESULTS					
FIELD NAME	DESCRIPTION	FORMAT	T	L	D	KEY? Y/N	REPORT TITLE
COMMENT	Comments within Variable Length "Memo" field	M	10	0		COMMENT	WAS FIXED LENGTH CHARACTER OF LENGTH = 50
CP	Nearest CP Reading (mV)	N	5	0		CP	
CR_DATE	Date Record was created	D	8	0		CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
CR_USER	Id of User who last created record	C	8	0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL
FP	Reference Footpost (of matching object) (kft)	N	8	3		FP	MUST EXIST OR BE CREATED IN RELATED FILE
IDENT	Pipeline Identity	C	14	0		Pipeline	EXISTS WITHIN PDESCRIP DATABASE
ID_NO	Reference Number (of matching object)	C	6	0		ID NO	MUST EXIST OR BE CREATED IN RELATED FILE
ID_REL	Related Inspectable Component	C	6	0		REL-ID	
INSPNO	Inspection Code - format mm/yy	C	6	0		INSPNO	EXISTS WITHIN WORKPIPE DATABASE
MOD_DATE	Date Record was created	D	8	0		MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
MOD_USER	Id of User who last modified record	C	8	0		MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL
OBS_FP	Observed Footpost (kft)	N	6	3		OBS FP	

KEY : [C]type = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT	
T	L	D				
CR_DATE	Date Record was created	D	8	0	CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
CR_USER	Id of User who last created record	C	8	0	CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL
DESC	Description of Item	C	20	0	DESCRIPTION	
FP	Reference Footpost (kft)	N	8	3	FP	
IDENT	Pipeline Identity	C	14	0	PIPELINE	EXISTS WITHIN PDESCRIP DATABASE
ID_NO	Reference Number of object	C	6	0	ID_NO	UNIQUE WITHIN MAST_0 & ITEM_0
ID_REL	Related Inspectable Component	C	6	0	REL-ID	CAN ONLY REFER TO A (C)ROSSING OR NOTHING (BLANK)
MOD_DATE	Date Record was created	D	8	0	MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
MOD_USER	Id of User who last modified record	C	8	0	MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY								
FIELD NAME	DESCRIPTION	FORMAT	T	L	D	KEY? Y/N	REPORT TITLE	COMMENT
BASE_YR	Year Object Identified	N	2	0			Fnd	
CR_DATE	Date Record was created	D	8	0			CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
CR_USER	Id of User who last created record	C	8	0			CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL
FP	Reference Footpost (kft)	N	8	3			FP	
IDENT	Pipeline Identity	C	14	0			PIPELINE	EXISTS WITHIN PDESCRIP DATABASE
ID_NO	Reference Number of object	C	6	0			ID NO	UNIQUE WITHIN MAST_0
LATEST	Latest Inspection for item	C	6	0			LAST_INSP.	
MAX_FP	Maximum recorded Footpost for item	N	6	3			MAXV FP	
MIN_FP	Minimum recorded Footpost for item	N	6	3			MIN FP	
MOD_DATE	Date Record was created	D	8	0			MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
MOD_USER	Id of User who last modified record	C	8	0			MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL
OTYPE	Item Type	C	8	0			TYPE	THIS SHOULD BE A DERIVED FIELD

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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FILE NAME		DATA DICTIONARY					
SYSTEM TYPE	DESCRIPTION	DESCRIPTION		FORMAT	KEY? Y/N	REPORT TITLE	COMMENT
FIELD NAME		T	L	D			
CR_DATE	Date Record was created			D	8	0	CR_DATE UPDATED TO MAINTAIN AUDIT TRAIL
CR_USER	Id of User who last created record			C	8	0	CR_USER UPDATED TO MAINTAIN AUDIT TRAIL
DEPTH	COORDINATE DEPTH (FT)			N	5	0	DEPTH
EASTING	UTM COORDINATE (EASTING)			N	10	2	EASTING
FP	Observed Footpost (kft)			N	8	3	FP
IDENT	Pipeline Identity			C	14	0	PIPELINE EXISTS WITHIN PDESCRIP DATABASE
INSPNO	Inspection Code - format rrrr/jy			C	6	0	INSPNO EXISTS WITHIN WORKPIPE DATABASE
MOD_DATE	Date Record was created			D	8	0	MOD_DATE UPDATED TO MAINTAIN AUDIT TRAIL
MOD_USER	Id of User who last modified record			C	8	0	MOD_USER UPDATED TO MAINTAIN AUDIT TRAIL
NORTHING	UTM COORDINATE (NORTHING)			N	13	3	NORTHING

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY								
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FIELD NAME	DESCRIPTION	FORMAT	T	L	D	KEY? Y/N	REPORT TITLE	COMMENT
COMMENT	Comments within Variable Length "Memo" field	M	10	0				WAS FIXED LENGTH CHARACTER OF LENGTH = 60
CP	Nearest CP Reading (mV)	N	5	0			CP	
CR_DATE	Date Record was created	D	8	0			CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
CR_USER	Id of User who last created record	C	8	0			CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL
FP	Reference Footpost (of matching object)	N	8	3			FP	MUST EXIST OR BE CREATED IN RELATED FILE
IDENT	Pipeline Identity	C	14	0			Pipeline	EXISTS WITHIN PDESCRIP DATABASE
ID_NO	Reference Number (of matching object)	C	6	0			ID NO	MUST EXIST OR BE CREATED IN RELATED FILE
ID_REL	Related Inspectable Component	C	6	0			REL-ID	
INSPNO	Inspection Code - format nnn/yy	C	6	0			INSPNO	EXISTS WITHIN WORKPIPE DATABASE
MOD_DATE	Date Record was created	D	8	0			MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
MOD_USER	Id of User who last modified record	C	8	0			MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL
OBS_FP	Observed Footpost (kft)	N	6	3			OBS FP	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FILE NAME	PDAM_0					
SYSTEM	- PIPELINE SUBSEA					
TYPE	- SYSTEM FILE					
DESCRIPTION	- AREAS OF PHYSICAL DAMAGE					
FIELD NAME	DESCRIPTION	FORMAT	T L	D	KEY? Y/N	REPORT TITLE
CR_DATE	Date Record was created	D	8	0		CR_DATE
CR_USER	Id of User who last created record	C	8	0		CR_USER
DESC	Damage Description	C	50	0		DESC
FP	Reference Footpost (kft)	N	8	3		FP
IDENT	Pipeline Identity	C	14	0		Pipeline
ID_NO	Reference Number of object	C	6	0		ID NO
ID_REL	Related Inspectable Component	C	6	0		REL-ID
MOD_DATE	Date Record was created	D	8	0		MOD_DATE
MOD_USER	Id of User who last modified record	C	8	0		MOD_USER
PDAMCAT	Damage Category	C	20	0		NATURE_OF
PDAMRCON	Repair Contractor	C	20	0		PDAMRCON
PDAMRDAT	Repair Date	D	8	0		PDAMRDAT
PDAMRTYP	Type of Remedial Work	C	50	0		PDAMRTYP

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY							
FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT		
ANOD_QTY	Last Number Allocated to ANOD_0 record	N 3 0		ANOD_QTY	MAINTAINED BY OBJECT MODULES		
CDAM_QTY	Last Number Allocated to CDAM_0 record	N 3 0		CDAM_QTY	MAINTAINED BY OBJECT MODULES		
CODE	Directory where Pipeline data is found	C 8 0		SUB_DIR			
CONCR_CTG	Concrete Coating-type, thickness and weight	C 50 0		CONCR_CTG			
CON_SPTOL	Construction Max Allowable Span Length (ft)	N 3 0		CON_SPTOL			
CORR_CTG	Corrosion Coating, thickness and type	C 10 0		CORR_CTG			
CROS_QTY	Last Number Allocated to CROS_0 record	N 3 0		CROS_QTY	MAINTAINED BY OBJECT MODULES		
CR_DATE	Date Record was created	D 8 0		CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL		
CR_USER	Id of User who last created record	C 8 0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL		
DEBR_QTY	Last Number Allocated to DEBR_0 record	N 3 0		DEBR_QTY	MAINTAINED BY OBJECT MODULES		
DESC	General Pipeline Description	M 10 0		DESC	WAS A 100 CHARACTER FIXED LENGTH FIELD-NOW A MEMO		
DYN_SPTOL	Operating Max Allowable Span Length (ft)	N 3 0		DYN_SPTOL			
IDENT	Pipeline Identity	C 14 0		Pipeline	UNIQUE IN PDESCRIP DATABASE/PLATFORMS EXIST		
ID_NO_TOL	Item Foot Post matching tolerance	N 2 0		ID NO	USED TO ASSOCIATE OBJECTS BETWEEN INSPECTIONS		
INSTALLED	Year Pipeline Installed	N 2 0		YR			
ITEM_QTY	Last Number Allocated to ITEM_0 record	N 3 0		ITEM_QTY	MAINTAINED BY OBJECT MODULES		
LATEST	Last General Pipeline Inspection	C 6 0		LAST_INSP.	DERIVED FROM THE INSPECTION MODULE - NEW		
LJE_FACT	Longitudinal Joint Efficiency factor for line	N 4 2		LJE_FACT	WAS MAINTAINED IN WALL THICKNESS CAIRS		
MAXPRESS	Maximum Pressure for Weakest Pipeline Section	N 5 0		MAXPRESS	WAS MAINTAINED IN WALL THICKNESS CAIRS		
MOD_DATE	Date Record was created	D 8 0		MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL		

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
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FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT	
MOD_USER	ID of User who last modified record	C 8 0		MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
OA_CAPAC	Original Anode Capacity (A hrs/1b)	N 4 0		OA_CAPAC		
OA_DLIFE	Original Anode Design Life	N 2 0		OA_DLIFE		
OA_LGTH	Original Anode Length (in)	N 5 2		OA_LGTH	Was originally Num. 4,0	
OA_MA_FT	Original Anode Current Density (mA/ft2)	N 3 0		OA_MA_FT		
OA_PAREA	Original Anode percent Bare Area	N 3 0		OA_PAREA		
OA_QTY	Number of Original Anodes	N 3 0		OA_QTY		
OA_SPACE	Original Anode Spacing (ft)	C 8 0		OA_SPACE		
OA_THK	Original Anode Thickness (.in)	N 5 2		OA_THK	Was originally Num. 4,0	
OA_TYPE	Type of original Anodes	C 10 0		OA_TYPE		
OA_WIGHT	Original Anode Weight (lbs)	N 4 0		OA_WIGHT		
OP_PRESS	Pipeline Operating Pressure (psi)	N 5 0		OP_PRESS	WAS MAINTAINED IN WALL THICKNESS CAIRS	
PBURIAL	Estimated Overall Pipeline Burial (percent)	N 3 0		PBURIAL		
PCONTRAC	Pipe lay contractor	C 20 0		PCONTRAC		
PDAM_QTY	Last Number Allocated to PDAM_0 record	N 3 0		PDAM_QTY	MAINTAINED BY OBJECT MODULES	
PDIA	Nominal Diameter of the Pipe	N 2 0		PDIA		
PFIELD	Field that the pipeline serves	C 8 0		FIELD		
PLLENGTH	Length of Pipeline (kft)	N 8 3		LENGTH		
RA_CAPAC	Retrofit Anode Capacity (Ahrs / 1b)	N 4 0		RA_CAPAC		
RA_DLIFE	Retrofit Anode Design Life	N 2 0		RA_DLIFE		

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FILE NAME	PDESCRIP					
SYSTEM	- PIPELINE SUBSEA					
TYPE	- SYSTEM FILE					
DESCRIPTION	- PIPELINE DESCRIPTIONS					
FIELD NAME	DESCRIPTION	FORMAT	T L	D	KEY? Y/N	REPORT TITLE
RA_LGTH	Retrofit Anode Length (in)	N	5	2		RA_LGTH
RA_MA_FT	Retrofit Anode Current Density (mA/ft <sup>2</sup> )	N	3	0		RA_MA_FT
RA_PAREA	Retrofit Anode percent Bare Area	N	3	0		RA_PAREA
RA_QTY	Number of Retrofit Anodes	N	3	0		RA_QTY
RA_SPACE	Retrofit Anode Spacing (ft)	C	8	0		RA_SPACE
RA_THK	Retrofit Anode Thickness (in)	N	5	2		RA_THK
RA_TYPE	Retrofit Anode Type	C	10	0		RA_TYPE
RA_WGHT	Retrofit Anode Weight (lbs)	N	4	0		RA_WGHT
RETROANODE	Year Retrofit Anodes Installed	N	2	0		RETROANODE
RISK_CORR	Corrosion Risk Index	N	3	0		RISK_CORR
RISK_DAM	Third party damage Index	N	3	0		RISK_DAM
RISK_DESN	Design Risk Index	N	3	0		RISK_DESN
RISK_LEAK	Leak Impact Factor	N	3	0		RISK_LEAK
RISK_OPS	Incorrect Operation Index	N	3	0		RISK_OPS
RISK_RISK	Overall Relative Risk for Pipeline	N	3	0		RISK_RISK
SPAN_QTY	Last Number Allocated to SPAN_0 record	N	3	0		SPAN_QTY
SUPP_QTY	Last Number Allocated to SUPP_0 record	N	3	0		SUPP_QTY
T_FACTOR	Temperature Factor for whole pipeline	N	5	3		T_FACTOR
						WAS MAINTAINED IN WALL THICKNESS CAIRS

KEY : [C]harter = [C]harter, [N]umeric = [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT	
T	L	D				
CAPTION	Description of Shot	C	70	0	CAPTION	
CR_DATE	Date Record was created	D	8	0	CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
CR_USER	Id of User who last created record	C	8	0	CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL
FILM	Film number	N	3	0	FLM	
FP	Observed Footpost (kft)	N	8	3	OBS FP	
IDENT	Pipeline Identity	C	14	0	Pipeline	EXISTS WITHIN PDESCRIP DATABASE
ID_CODE	Not Recorded - Included for PL34 Import	C	2	0	ID_CODE	
ID_REL	Related Inspectable Component	C	6	0	REL-ID	
INSPNO	Inspection Code - format nnn/yy	C	6	0	INSPNO	EXISTS WITHIN WORKPIPE DATABASE
MOD_DATE	Date Record was created	D	8	0	MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
MOD_USER	Id of User who last modified record	C	8	0	MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL
SHOT	Shot Number	N	3	0	SHT	
SUBJECT	Category of Subject	C	8	0	SUB	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT	
COMMENT	Comments within Variable Length "Memo" field	M	10	0	COMMENT	
CP	Nearest CP Reading (mV)	N	5	0	CP	
CR_DATE	Date Record was created	D	8	0	CR_DATE	
CR_USER	Id of User who last created record	C	8	0	CR_USER	
FP	Reference Footpost (of matching object) (kft)	N	8	3	FP	
IDENT	Pipeline Identity	C	14	0	Pipeline	
ID_NO	Reference Number (of matching object)	C	6	0	ID NO	
ID_REL	Related Inspectable Component	C	6	0	REL-ID	
INSPNO	Inspection Code - format nnn/yy	C	6	0	INSPNO	
MOD_DATE	Date Record was created	D	8	0	MOD_DATE	
MOD_USER	Id of User who last modified record	C	8	0	MOD_USER	
OBS_FP	Observed Footpost (kft)	N	6	3	OBS FP	
SPAN_GRAD	Span Grading [0,1,2]	C	1	0	G	
SPAN_HEIGHT	Height of Span (in)	N	3	0	HGH	
SPAN_LEN	Length of Span (ft)	N	4	0	LGTH	
SUPP	Is Span Supported [YES,NO ]	C	3	0	S	
					Originally C,1 - Is Span Supported (YES or NO)	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT	
CR_DATE	Date Record was created	D 8 0		CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
CR_USER	Id of User who last created record	C 8 0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
FP	Reference Footpost (kft)	N 8 3	FP			
IDENT	Pipeline Identity	C 14 0		PIPELINE	EXISTS WITHIN PDESCRIP DATABASE	
ID_NO	Reference Number of object	C 6 0	ID NO		UNIQUE WITHIN MAST_0 & SPAN_0	
ID_REL	Related Inspectable Component	C 6 0		REL-ID		
MOD_DATE	Date Record was created	D 8 0		MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
MOD_USER	Id of User who last modified record	C 8 0		MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY								
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FIELD NAME	DESCRIPTION	FORMAT	T	L	D	KEY? Y/N	REPORT TITLE	COMMENT
CR_DATE	Date Record was created	D	8	0		CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
CR_USER	Id of User who last created record	C	8	0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
FP	Observed Footpost (kft)	N	8	3		FP		
IDENT	Pipeline Identity	C	14	0		Pipeline	EXISTS WITHIN PDESCRIP DATABASE	
ID_CODE	Not Recorded - Included for PL34 Import	C	2	0		ID_CODE		
ID_REL	Related Inspectable Component	C	6	0		REL-ID		
INSPNO	Inspection Code - format rrrr/yy	C	6	0		INSPNO	EXISTS WITHIN WORKPIPE DATABASE	
MOD_DATE	Date Record was created	D	8	0		MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
MOD_USER	Id of User who last modified record	C	8	0		MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
STAB	Stab value (mV)	N	5	0		STAB		

KEY : [C]harter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT	
COMMENT	Comments within Variable Length "Memo" field	M	10	0	COMMENT	
CP	Nearest CP Reading (mV)	N	5	0	CP	
CR_DATE	Date Record was created	D	8	0	CR_DATE	
CR_USER	Id of User who last created record	C	8	0	CR_USER	
FP	Reference Footpost (of matching object) (kft)	N	8	3	FP	
IDENT	Pipeline Identity	C	14	0	Pipeline	
ID_NO	Reference Number (of matching object)	C	6	0	ID NO	
ID_REL	Related Inspectable Component	C	6	0	REL-ID	
INSPNO	Inspection Code - format nnn/yy	C	6	0	INSPNO	
MOD_DATE	Date Record was created	D	8	0	MOD_DATE	
MOD_USER	Id of User who last modified record	C	8	0	MOD_USER	
OBS_FP	Observed Footpost (kft)	N	6	3	OBS FP	
START_FP	Position of Supported Event (Crossing or Span)	N	6	3	EVENT	
SUP_PIPE	Supporting Pipeline [YES,NO]	C	3	0	SUP PIP	
					Supporting Pipeline (YES or NO)	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY							
FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT		
T	L	D					
CR_DATE	Date Record was created	D	8	0	CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
CR_USER	Id of User who last created record	C	8	0	CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
DESC	Description of Support	C	50	0	DESC		
FP	Reference Footpost (kft.)	N	8	3	FP		
IDENT	Pipeline Identity	C	14	0	PIPELINE	EXISTS WITHIN PDESCRIP DATABASE	
ID_NO	Reference Number of object	C	6	0	ID NO	UNIQUE WITHIN MAST_0 & SUPP_0	
ID_REL	Related Inspectable Component	C	6	0	REL-ID		
MOD_DATE	Date Record was created	D	8	0	MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
MOD_USER	Id of User who last modified record	C	8	0	MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
SUP_TYPE	Supported Event	C	8	0	SUP_EVNT	Supported Event (CROSSING or SPAN)	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT	
COMMENT	Comments regarding video frame	C 70 0		COMMENT		
CR_DATE	Date Record was created	D 8 0		CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
CR_USER	Id of User who last created record	C 8 0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
FP	Observed Footpost (kft)	N 8 3		OBS FP		
IDENT	Pipeline Identity	C 14 0		Pipeline	EXISTS WITHIN PDESCRIP DATABASE	
ID_CODE	Not Recorded - Included for PL34 Import	C 2 0		ID_CODE		
ID_REL	Related Inspectable Component	C 6 0		REL-ID		
INSPNO	Inspection Code - format nnn/yy	C 6 0		INSPNO	EXISTS WITHIN WORKPIPE DATABASE	
MOD_DATE	Date Record was created	D 8 0		MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
MOD_USER	Id of User who last modified record	C 8 0		MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
TAPE	Tape Number	N 3 0		TP		
TCOUNT	Tape Count	C 5 0		COUNT		

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT	
COMMENT	Comments within Variable Length "Memo" field	M 10 0		COMMENT	WAS FIXED LENGTH CHARACTER OF LENGTH = 70	
CR_DATE	Date Record was created	D 8 0		CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
CR_USER	Id of User who last created record	C 8 0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
INSPO	Inspection Code - format mm/yy	C 6 0		INSPO	UNIQUE IN WORKPIPE DATABASE	
MOD_DATE	Date Record was created	D 8 0		MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
MOD_USER	Id of User who last modified record	C 8 0		MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
PIPE_QTY	Number of Pipelines Inspected	N 3 0		PIPE_QTY	UPDATED BY ALLOCATING PIPELINES VS. THE INSPECTION	
WCNT	Contractor for Work	C 20 0		WCNT		
WCOST	Cost of Contract (Currency and Amount)	C 10 0		WCOST		
WCPCON	CP Contractor	C 20 0		WCPCON		
WCPEQP	CP Equipment Used	C 20 0		WCPEQP		
WDIVER	Type of Diving Operations	C 10 0		WDIVER	WAS CHARACTER 20 - NOW CHARACTER 10 - CONSISTANCY	
WEND	End Date	D 8 0		END		
WLENGTH	Length of Pipelines inspected (kft)	N 8 3		WLENGTH		
WPROFILE	Profiler Equipment	C 20 0		WPROFILE		
WREPAIR	Remedial Work Description	M 10 0		WREPAIR	WAS A FIXED LENGTH 50 CHARACTER FIELD	
WRDV	ROV type and Serial number	C 20 0		WRDV		
WSTART	Start Date	D 8 0		START		
WSURNAV	Surface Navigation Equipment	C 20 0		WSURNAV		
WTTRACKER	Pipe Tracking Equipment	C 20 0		WTTRACKER		

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT	
T	L	D				
WTYPE	Type of Work Done	C 15 0		TYPE OF		
WNSL	Diving Vessel Used	C 20 0		WNSL		
WMTEQP	Wall Thickness Equipment	C 20 0		WMTEQP		

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY							
FIELD NAME	DESCRIPTION	FORMAT	L	D	KEY? Y/N	REPORT TITLE	COMMENT
CR_DATE	Date Record was created	D	8	0		CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
CR_USER	Id of User who last created record	C	8	0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL
IDENT	Pipeline Associated with Inspection	C	14	0		PIPELINE	EXISTS WITHIN PDESCRIP DATABASE
INSPNO	Inspection Code - format nn/yy	C	6	0		INSPNO	EXISTS WITHIN WORKPIPE DATABASE
MOD_DATE	Date Record was created	D	8	0		MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
MOD_USER	Id of User who last modified record	C	8	0		MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

VERSION : Revision : 1.00  
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DATA DICTIONARY						
FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT	
COMMENT	Comment	M	10	0	COMMENT	
CR_DATE	Date Record was created	D	8	0	CR_DATE	
CR_USER	Id of User who last created record	C	8	0	CR_USER	
DEPTH	Reference Depth (of matching object)	N	4	0	DEPTH	
IDENT	Pipeline Name	C	14	0	PIPELINE	
ID_NO	Reference Number (of matching object)	C	6	0	ID NO	
ID_REL	Related Inspectable Component	C	6	0	REL-ID	
INSPNO	Inspection Code - format nnn/yy	C	6	0	INSPNO	
LGTH	Length of Coating Damage	N	3	0	LGTH	
MOD_DATE	Date Record was created	D	8	0	MOD_DATE	
MOD_USER	Id of User who last modified record	C	8	0	MOD_USER	
OBS_DP	Observed Depth	N	4	0	OBS_DP	
PLATFORM	Platform	C	4	0	PLATFORM	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT	
CR_DATE	Date Record was created	D 8 0		CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
CR_USER	Id of User who last created record	C 8 0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
DEPTH	Depth	N 4 0		DEPTH		
DESC	Description	M 10 0		DESC	WAS FIXED LENGTH CHARACTER OF LENGTH = 40	
GRADE	Grade of Coating Damag	C 5 0		GRADE	Grade of Coating Damage (MAJOR or MINOR)	
IDENT	Pipeline Name	C 14 0		PIPELINE	EXISTS WITHIN RISERS DATABASE	
ID_NO	Reference Number	C 6 0		ID NO	UNIQUE WITHIN RCDA_0	
MOD_DATE	Date Record was created	D 8 0		MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
MOD_USER	Id of User who last modified record	C 8 0		MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
PLATFORM	Platform	C 4 0		PLATFORM	EXISTS WITHIN RISERS DATABASE	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY							
FILE NAME	-	RCA_I					
SYSTEM	-	SYSTEM FILE					
TYPE	-	RISER CLAMP INSPECTION					
FIELD NAME	DESCRIPTION		FORMAT	KEY? Y/N	REPORT TITLE	COMMENT	
COMMENT	Comment		M 10 0		COMMENT	WAS FIXED LENGTH CHARACTER FIELD OF LENGTH = 60	
CR_DATE	Date Record was created		D 8 0		CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
CR_USER	Id of User who last created record		C 8 0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
DEPTH	Reference Depth (of matching object)		N 4 0		DEPTH	MUST EXIST OR BE CREATED IN RELATED FILE	
IDENT	Pipeline Name		C 14 0		Pipeline	EXISTS WITHIN RISERS DATABASE	
ID_NO	Reference Number (of matching object)		C 6 0		ID NO	MUST EXIST OR BE CREATED IN RELATED FILE	
ID_REL	Related Inspectable Component		C 6 0		REL-ID		
INSPNO	Inspection Code - format nnn/yy		C 6 0		INSPNO	EXISTS WITHIN WORKRISER DATABASE - format changed	
MOD_DATE	Date Record was created		D 8 0		MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
MOD_USER	Id of User who last modified record		C 8 0		MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
OBS_DP	Observed Depth		N 4 0		OBS_DP		
PLATFORM	Platform		C 4 0		PLATFORM	EXISTS WITHIN RISERS DATABASE	
RCP	CP Reading on Riser (mV)		N 5 0		RCP		
RGAP	Max Gap on Riser (inches)		N 5 2		RGAP		
RMISS_BLT	Number of bolts missing on riser side		N 2 0		RMISS_BLT		
SCP	CP Reading on Structure (mV)		N 5 0		SCP		
SGAP	Max Gap on Structure (inches)		N 5 2		SGAP		
SMISS_BLT	Number of bolts missing on structure side		N 2 0		SMISS_BLT		
STD_DAM	Standoff Damage ? [YES,NO ]		C 3 0		DAM	Standoff Damage ? [YES,NO ]	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

VERSION : Revision : 1.00  
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FILE NAME		DATA DICTIONARY						
SYSTEM	- RCLA_0							
TYPE	- RISER							
DESCRIPTION	- IDENTIFIED RISER CLAMPS							
FIELD NAME	DESCRIPTION	FORMAT	T	L	D	KEY? Y/N	REPORT TITLE	COMMENT
CR_DATE	Date Record was created	D	8	0		CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
CR_USER	Id of User who last created record	C	8	0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
DEPTH	Depth	N	4	0		DEPTH		
DESC	Description	M	10	0		DESC	WAS FIXED LENGTH CHARACTER OF LENGTH = 40	
IDENT	Pipeline Name	C	14	0		PIPELINE	EXISTS WITHIN RISERS DATABASE	
ID_NO	Reference Number	C	6	0		ID NO	UNIQUE WITHIN RCLA_0	
MOD_DATE	Date Record was created	D	8	0		MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
MOD_USER	Id of User who last modified record	C	8	0		MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
PLATFORM	Platform	C	4	0		PLATFORM	EXISTS WITHIN RISERS DATABASE	
RISBOLTS	Number of Bolts on riser side	N	2	0		RISBOLTS		
RSIZBOLT	Size of bolts on riser side	N	4	2		RSIZBOLT		
RSIZNUT	Size of nuts on riser side	N	4	2		RSIZNUT		
SSIZBOLT	Size of bolts on structure side	N	4	2		SSIZBOLT		
SSIZNUT	Size of Nuts on structure side	N	4	2		SSIZNUT		
STRBOLTS	Number of bolts on Structure Side	N	2	0		STRBOLTS		

KEY : [C]harter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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FILE NAME		DATA DICTIONARY					
SYSTEM TYPE	DESCRIPTION	FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT
- RISER	Comment	COMMENT		M	10	0	COMMENT
- SYSTEM FILE	Comment continuation reference	CONT_REF		N	2	0	CONT_REF
- GENERAL INSPECTION COMMENTS	Date Record was created	CR_DATE		D	8	0	CR_DATE
	Id of User who last created record	CR_USER		C	8	0	CR_USER
	Reference Depth	DEPTH		N	4	0	DEPTH
	Pipeline Name	IDENT		C	14	0	Pipeline
	Related Inspectable Component	ID_REL		C	6	0	REL-ID
	Inspection Code - format nnn/yy	INSPNO		C	6	0	INSPNO
	Date Record was created	MOD_DATE		D	8	0	MOD_DATE
	Id of User who last modified record	MOD_USER		C	8	0	MOD_USER
	Platform	PLATFORM		C	4	0	PLATFORM
	Subject of comment	SUBJECT		C	10	0	SUBJECT

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY							
FIELD NAME	DESCRIPTION	FORMAT	T L	D	KEY? Y/N	REPORT TITLE	COMMENT
COATING	Coating used on riser	C	10	0		COATING	
CR_DATE	Date Record was created	D	8	0		CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
CR_USER	Id of User who last created record	C	8	0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL
DELBOW	Depth of riser elbow (ft)	N	4	0		DELBOW	
DESC	Description	M	10	0		DESC	WAS FIXED LENGTH CHARACTER FIELD OF LENGTH = 70
GUARD	Riser Guard Present [YES,NO ]	C	3	0		GUARD	
HGTITUBE	Height of end of riser tube from seabed (ft)	N	4	1		HGTITUBE	
IDENT	Pipeline Name	C	14	0		Pipeline	EXISTS WITHIN PDESCRIP PIPELINE DATABASE
KNEEBrACE	Riser knees brace present [YES,NO ]	C	3	0		KNEEBrACE	
LATEST	Last General Riser Inspection	C	6	0		LAST_INSP.	DERIVED FROM THE INSPECTION MODULE - NEW
MOD_DATE	Date Record was created	D	8	0		MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
MOD_USER	Id of User who last modified record	C	8	0		MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL
PLATFORM	Platform	C	4	0		PLATFORM	EXISTS WITHIN RISERS DATABASE
P_SIDE	Side of Platform that riser is found on [N,S,E,W]	C	1	0		P_SIDE	Side of Platform that the riser is found on
RCDA_QTY	Last Number allocated to Coating Damage Id no	N	3	0		RCDA_QTY	MAINTAINED BY OBJECT MODULES
RCLA_QTY	Last Number allocated to Riser Clamp Id No	N	3	0		RCLA_QTY	MAINTAINED BY OBJECT MODULES
RITM_QTY	Last Number allocated to Riser Item Id no	N	3	0		RITM_QTY	MAINTAINED BY OBJECT MODULES
RPDA_QTY	Last Number allocated to Physical Damage Id no	N	3	0		RPDA_QTY	MAINTAINED BY OBJECT MODULES
UTM_E	UTM Coordinate (East)	C	10	0		UTM_E	
UTM_N	UTM Coordinate (North)	C	10	0		UTM_N	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FILE NAME	RISERS	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT
SYSTEM	- RISER		T L	D		
TYPE	- SYSTEM FILE					
DESCRIPTION	- RISER DESCRIPTIONS					
FIELD NAME						

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY							
FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT		
COMMENT	Comment	M	10	0	COMMENT	WAS FIXED LENGTH CHARACTER FIELD OF LENGTH = 60	
CR_DATE	Date Record was created	D	8	0	CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
CR_USER	Id of User who last created record	C	8	0	CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
DEPTH	Reference Depth (of matching object)	N	4	0	DEPTH	MUST EXIST OR BE CREATED IN RELATED FILE	
IDENT	Pipeline Name	C	14	0	PIPELINE	EXISTS WITHIN RISERS DATABASE	
ID_NO	Reference Number (of matching object)	C	6	0	ID NO	MUST EXIST OR BE CREATED IN RELATED FILE	
ID_REL	Related Inspectable Component	C	6	0	REL-ID		
INSPNO	Inspection Code - format nnn/yy	C	6	0	INSPNO	EXISTS WITHIN WORKRISER DATABASE - format changed	
MOD_DATE	Date Record was created	D	8	0	MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
MOD_USER	Id of User who last modified record	C	8	0	MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
OBS_DP	Observed Depth	N	4	0	OBS_DP		
PLATFORM	Platform	C	4	0	PLATFORM	EXISTS WITHIN RISERS DATABASE	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT	
CR_DATE	Date Record was created	D 8 0		CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
CR_USER	Id of User who last created record	C 8 0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
DEPTH	Depth	N 4 0		DEPTH		
DESC	Description	M 10 0		DESC	WAS FIXED LENGTH CHARACTER OF LENGTH = 40	
IDENT	Pipeline Name	C 14 0		Pipeline	EXISTS WITHIN RISERS DATABASE	
ID_NO	Reference Number	C 6 0		ID NO	UNIQUE WITHIN RTIM_0	
MOD_DATE	Date Record was created	D 8 0		MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
MOD_USER	Id of User who last modified record	C 8 0		MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
PLATFORM	Platform	C 4 0		PLATFORM	EXISTS WITHIN RISERS DATABASE	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT	
T	L	D				
BASE_YR	Year Object Identified	N	2	0	BASE_YR	
CR_DATE	Date Record was created	D	8	0	CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
CR_USER	Id of User who last created record	C	8	0	CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL
DEPTH	Depth	N	4	0	DEPTH	
IDENT	Pipeline Name	C	14	0	PIPELINE	EXISTS WITHIN RISERS DATABASE
ID_NO	Reference Number	C	6	0	ID NO	UNIQUE WITHIN RMST_0
LATEST	Latest Inspection for item	C	6	0	LAST_INSP.	
MOD_DATE	Date Record was created	D	8	0	MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
MOD_USER	Id of User who last modified record	C	8	0	MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL
OTYPE	Item Description	C	6	0	OCTYPE	KEEP AT CHARACTER 6 - NO CHANGE
PLATFORM	Platform	C	4	0	PLATFORM	EXISTS WITHIN RISERS DATABASE

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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FILE NAME - RMST\_0  
 SYSTEM - RISER  
 TYPE - SYSTEM FILE  
 DESCRIPTION - MASTER LIST OF COMPONENTS

DATA DICTIONARY							
FIELD NAME	DESCRIPTION	FORMAT	L	D	KEY? Y/N	REPORT TITLE	COMMENT
COMMENT	Comment	M	10	0		COMMENT	WAS FIXED LENGTH CHARACTER FIELD OF LENGTH = 60
CR_DATE	Date Record was created	D	8	0		CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
CR_USER	Id of User who last created record	C	8	0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL
DEPTH	Reference Depth (of matching object)	N	4	0		DEPTH	MUST EXIST OR BE CREATED IN RELATED FILE
IDENT	Pipeline Name	C	14	0		Pipeline	EXISTS WITHIN RISERS DATABASE
ID_NO	Reference Number (of matching object)	C	6	0		ID NO	MUST EXIST OR BE CREATED IN RELATED FILE
ID_REL	Related Inspectable Component	C	6	0		REL-ID	
INSPNO	Inspection Code - format mnn/yy	C	6	0		INSPNO	EXISTS WITHIN WORKRISER DATABASE - format changed
MOD_DATE	Date Record was created	D	8	0		MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
MOD_USER	Id of User who last modified record	C	8	0		MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL
OBS_DP	Observed Depth	N	4	0		OBS_DP	
PLATFORM	Platform	C	4	0		PLATFORM	EXISTS WITHIN RISERS DATABASE

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY							
FIELD NAME	DESCRIPTION	FORMAT	L	D	KEY? Y/N	REPORT TITLE	COMMENT
CR_DATE	Date Record was created	D	8	0		CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
CR_USER	Id of User who last created record	C	8	0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL
DEPTH	Depth	N	4	0		DEPTH	
DESC	Description	M	10	0		DESC	WAS FIXED LENGTH CHARACTER OF LENGTH = 50
IDENT	Pipeline Name	C	14	0		Pipeline	EXISTS WITHIN RISERS DATABASE
ID_NO	Reference Number	C	6	0		ID NO	UNIQUE WITHIN RPDA_0
MOD_DATE	Date Record was created	D	8	0		MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
MOD_USER	Id of User who last modified record	C	8	0		MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL
PDAMRCON	Repair Contractor	C	20	0		PDAMRCON	WAS CHARACTER 15 - NOW CHARACTER 20 - CONSISTANCY
PDAMRDAT	Repair Date	D	8	0		PDAMRDAT	
PDAMRTYP	Type of remedial work	M	10	0		PDAMRTYP	WAS FIXED LENGTH CHARACTER OF LENGTH = 50
PLATFORM	Platform	C	4	0		PLATFORM	EXISTS WITHIN RISERS DATABASE

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY							
FIELD NAME	DESCRIPTION	FORMAT	L	D	KEY? Y/N	REPORT TITLE	COMMENT
CAPTION	Caption for Photo	C	70	0		CAPTION	
CR_DATE	Date Record was created	D	8	0		CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
CR_USER	Id of User who last created record	C	8	0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL
DEPTH	Reference Depth	N	4	0		DEPTH	
FILM	Film number	N	3	0		FILM	
IDENT	Pipeline Name	C	14	0		Pipeline	EXISTS WITHIN RISERS DATABASE
ID_REL	Related Inspectable Component	C	6	0		REL-ID	
INSPNO	Inspection Code - format nnn/yy	C	6	0		INSPNO	EXISTS WITHIN RISERS DATABASE - format changed
MOD_DATE	Date Record was created	D	8	0		MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
MOD_USER	Id of User who last modified record	C	8	0		MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL
MOUNTED	Shot Mounted in final report	C	1	0		MOUNTED	
PLATFORM	Platform	C	4	0		PLATFORM	EXISTS WITHIN RISERS DATABASE
SHOT	Film shot number	N	3	0		SHOT	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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FILE NAME		DATA DICTIONARY					
FIELD NAME	DESCRIPTION	FORMAT	L	D	KEY? Y/N	REPORT TITLE	COMMENT
CR_DATE	Date Record was created	D	8	0		CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
CR_USER	Id of User who last created record	C	8	0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL
DEPTH	Reference Depth	N	4	0		DEPTH	
IDENT	Pipeline Name	C	14	0		Pipeline	EXISTS WITHIN RISERS DATABASE
ID_REL	Related Inspectable Component	C	6	0		REL-ID	
INSPNO	Inspection Code - format mnn/yy	C	6	0		INSPNO	EXISTS WITHIN WORKRISER DATABASE - format changed
MOD_DATE	Date Record was created	D	8	0		MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
MOD_USER	Id of User who last modified record	C	8	0		MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL
PLATFORM	Platform	C	4	0		PLATFORM	EXISTS WITHIN RISERS DATABASE
STAB	Stab Value (mV)	N	5	0		STAB	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY							
FIELD NAME	DESCRIPTION	FORMAT	L	D	KEY? Y/N	REPORT TITLE	COMMENT
COMMENT	Comment	M	10	0		COMMENT	WAS FIXED LENGTH CHARACTER FIELD OF LENGTH = 70
CR_DATE	Date Record was created	D	8	0		CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
CR_USER	Id of User who last created record	C	8	0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL
DEPTH	Reference Depth	N	4	0		DEPTH	
IDENT	Pipeline Name	C	14	0		PIPELINE	EXISTS WITHIN RISERS DATABASE
ID_REL	Related Inspectable Component	C	6	0		REL-ID	
INSPNO	Inspection Code - format nnn/yy	C	6	0		INSPNO	EXISTS WITHIN WORKRISER DATABASE - format changed
MOD_DATE	Date Record was created	D	8	0		MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
MOD_USER	Id of User who last modified record	C	8	0		MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL
PLATFORM	Platform	C	4	0		PLATFORM	EXISTS WITHIN RISERS DATABASE
TAPE	Video tape number	N	3	0		TAPE	
TCOUNT	Tape Count / Runtime etc	C	5	0		TCOUNT	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT	
T	L	D				
COMPREP	Company Representative	C 20 0		COMPREP		
CONTRAC	Diving Contractor	C 20 0		CONTRAC	WAS CHARACTER 25 - NOW CHARACTER 20 - CONSISTANCY	
CR_DATE	Date Record was created	D 8 0		CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
CR_USER	Id of User who last created record	C 8 0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
DESC	Description of Work	M 10 0		DESC	WAS FIXED LENGTH CHARACTER FIELD OF LENGTH = 70	
DIVETYP	Type of Diving Operations	C 10 0		DIVETYP		
IEND	End date of survey	D 8 0		IEND		
INSPNO	Inspection Code - format: nn/yy	C 6 0		INSPNO	DOES NOT EXIST WITHIN WORKRISR DATABASE - new forma	
ISTART	Start date of survey	D 8 0		ISTART		
MOD_DATE	Date Record was created	D 8 0		MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
MOD_USER	Id of User who last modified record	C 8 0		MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
VESSEL	Survey Vessel Used	C 20 0		VESSEL		

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY							
FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT		
T	L	D					
CR_DATE	Date Record was created	D	8	0	CR_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
CR_USER	Id of User who last created record	C	8	0	CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
IDENT	Pipeline Identity	C	14	0	PIPELINE	EXISTS WITHIN PDESCRIP DATABASE	
INSPNO	Inspection Code - format nnn/yy	C	6	0	INSPNO	EXISTS WITHIN WORKRISER DATABASE - format changed	
MOD_DATE	Date Record was created	D	8	0	MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL	
MOD_USER	Id of User who last modified record	C	8	0	MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL	
PLATFORM	Platform	C	4	0	PLATFORM	EXISTS WITHIN RISERS DATABASE	
RISER	Platform	C	18	0	RISER	EXISTS WITHIN RISERS DATABASE combo platform+ident	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATA DICTIONARY						
FILE NAME	FIELD NAME	DESCRIPTION	FORMAT	KEY? Y/N	REPORT TITLE	COMMENT
-	CR_USER	Id of User who last created record	C 8 0		CR_USER	UPDATED TO MAINTAIN AUDIT TRAIL
CURMINWT	Current Minimum Wall Thickness		N 5 3		CURR WT	
DESC	Component Description		C 20 0		DESC	LIBRARY X-REFERENCE TO ENSURE CONSISTANT ENTRY
DFACTOR	Section Design Factor		N 5 3		DFACTOR	
IDENT	Pipeline Identity		C 14 0		PIPELINE	EXISTS WITHIN PDESPIP PIPELINE DATABASE
INSTALLED	Date section installed		D 8 0		INSTALLED	
MAXPRESS	Current Calculated Maximum Pressure		N 5 0		MAXPRESS	
MOD_DATE	Date Record was created		D 8 0		MOD_DATE	UPDATED TO MAINTAIN AUDIT TRAIL
MOD_USER	Id of User who last modified record		C 8 0		MOD_USER	UPDATED TO MAINTAIN AUDIT TRAIL
OPPERPRS	Operating pressure as percent of section max press		N 3 0		OPPERPRS	
O_DIAM	Actual Outside Diameter		N 6 3		O_DIAM	
PFIELD	Oil field		C 6 0		PFIELD	
PLAT	Associated Platform		C 4 0		PLAT	DEFAULT IS OBTAINED FROM PREVIOUS DATA
START	Start of Section(depth or Fp)		N 7 3		START	
STYPE	Section Type Up/Down riser or Pipeline section		C 1 0		STYPE	NOT NECESSARY TO STORE ?
THICKNESS	Original Wall Thickness		N 5 3		ORIG WT	
WGRADE	Material Grade		C 15 0		WGRADE	
WTMYS	Minimum Yield Stress		N 5 0		WTMYS	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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TEXT IMPORT DATA DICTIONARY									
FILE NAME	- AND01.TXT - PIPELINE	DESCRIPTION	T L D	FORMAT	VALIDATION METHOD	VALIDATION SCOPE/LIBRARY	VALIDATION FILE	VALIDATION FATAL	VALIDATION OTHER
DESC	Pipeline Identity	C 14 0						NO	PL34 SPECIFIC CHECK
INSPNO	Inspection Code - format nnn/yy	C 6 0	X-REF					NO	NOT CHECKED IN PL34
ID_CODE	Reference Number (of matching object)	C 2 0	X-REF					NO	
OBS_FP	Observed Footpost (kft)	N 6 3						NO	
OUTPUT	Calculated Output (mA)	N 5 0	RANGE					NO	Cannot be zero
REMLIFE	Remaining Life (Years 99 if greater than 99)	N 2 0	RANGE					NO	
ANDEP	Anode Depletion Grade (1-4)	N 1 0	RANGE					NO	
ANTYPE	Type of Anode [ORIGINAL , RETROFIT ]	C 10 0	SET CHOICE	REFER				NO	
ID_REL	Related Inspectable Component	C 2 0	X-REF				MAST_0	NO	C,I,SU,A,CD,PD,DE OR BLANK
COMMENT	Comments within Variable Length "Memo" field	C 60 0	ALT+C					NO	
OPERATING	Is the Anode Working [Y,N]	C 1 0	SET CHOICE	REFER			MAST_0	NO	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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TEXT IMPORT DATA DICTIONARY							
FILE NAME	-	CDAM I.TXT					
SYSTEM	-	PIPELINE					
TYPE	-	TEXT IMPORT FILE					
DESCRIPTION	-	COATING INSPECTION INSPECTION DATA					
PURPOSE	-	PIPELINE COATING DAMAGE INSPECTION RESULTS/OBSERVATIONS					
FIELD NAME	DESCRIPTION		FORMAT	VALIDATION METHOD	VALIDATION SCOPE/LIBRARY	VALIDATION FILE	VALIDATION FATAL
IDENT	Pipeline Identity		T L D				NO
INSPNO	Inspection Code - format nnn/yy		C 6 0	X-REF	WORKPIPE	NO	NOT CHECKED IN PL34
ID_CODE	Reference Number (of matching object)		C 2 0	X-REF	CDAM_0	NO	
OBS_FP	Observed Footpost (kft)		N 6 3			NO	Cannot be zero
LGTH	Length of Coating Damage (ft)		N 3 0			NO	
GRADE	Grade of Damage (formally MAJOR or MINOR) COATING		C 5 0	LIBRARY	CDAMGRAD	NO	
ID_REL	Related Inspectable Component		C 2 0	X-REF	MAST_0	NO	C OR BLANK
COMMENT	Comments within Variable Length "Memo" field		C 60 0	ALT+C		NO	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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TEXT IMPORT DATA DICTIONARY									
FILE NAME	- COMM.I.TXT								
SYSTEM	- PIPELINE								
TYPE	- TEXT IMPORT FILE								
DESCRIPTION	- MISCELLANEOUS INSPECTION COMMENTS								
PURPOSE	- MISCELLANEOUS INSPECTION RESULTS/OBSERVATIONS								
FIELD NAME	DESCRIPTION	FORMAT	L	D	VALIDATION METHOD	VALIDATION SCOPE/LIBRARY	VALIDATION FILE	VALIDATION FATAL	VALIDATION OTHER
IDENT	Pipeline Identity	C	14	0				NO	PL34 SPECIFIC CHECK
INSPNO	Inspection Code - format rnn/vy	C	6	0	X-REF		WORKPIPE	NO	NOT CHECKED IN PL34
ID_CODE	Not Recorded - Included for PL34 Import	C	2	0				NO	
OBS_FP	Observed Footpost (kft)	N	6	3				NO	Cannot be zero
ID_REL	Related Inspectable Component	C	2	0	X-REF		MAST_0	NO	C, I, SU, A, CD, PD, DE, SP OR BLANK
SUBJECT	Category of Subject (if applicable)	C	8	0				NO	
CONT_REF	Continuation Number for Comments	N	2	0				NO	
COMMENT	Comments within Variable Length "Memo" field	C	70	0	ALT+C			NO	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

VERSION : Revision : 1.00  
 DATE : 12/17/92

TEXT IMPORT DATA DICTIONARY							
FILE NAME	- CPCALIB.TXT - PIPELINE	DESCRIPTION	FORMAT	VALIDATION METHOD	VALIDATION SCOPE/LIBRARY	VALIDATION FILE	VALIDATION FATAL OTHER
IDENT	Pipeline Identity	C 14 0					NO PL34 SPECIFIC CHECK
INSPNO	Inspection Code - format mmn/yy	C 6 0 X-REF					NOT CHECKED IN PL34
CALIB_NO	Calibration number	N 2 0					NO
PROBE	CP Probe Type Used	C 20 0 LIBRARY	EQ_TYPE	EQ_TYPE	EQ_TYPE	EQ_TYPE	NO
PROBE_SN	CP Probe Serial Number	C 14 0					NO
ADV_500	Pre-Dive -500mV Check	N 5 0					NO
ADV_600	Pre-Dive -600mV Check	N 5 0					NO
ADV_700	Pre-Dive -700mV Check	N 5 0					NO
ADV_800	Pre-Dive -800mV Check	N 5 0					NO
ADV_900	Pre-Dive -900mV Check	N 5 0					NO
ADV1000	Pre-Dive -1000mV Check	N 6 0					NO
PDV_500	Post-Dive -500mV Check	N 5 0					NO
PDV_600	Post-Dive -600mV Check	N 5 0					NO
PDV_700	Post-Dive -700mV Check	N 5 0					NO
PDV_800	Post-Dive -800mV Check	N 5 0					NO
PDV_900	Post-Dive -900mV Check	N 5 0					NO
PDV1000	Post-Dive -1000mV Check	N 6 0					NO
ADV_ACC	Acceptable Pre-Dive [Y,N]	C 3 0	SET CHOICE	REFER	REFER	REFER	NO
PDV_ACC	Acceptable Post-Dive [Y,N]	C 3 0	SET CHOICE	REFER	REFER	REFER	NO

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

VERSION : Revision : 1.00

DATE : 12/17/92

TEXT IMPORT DATA DICTIONARY							
FILE NAME	CPICALIB.TXT						
SYSTEM	PIPELINE						
TYPE	TEXT IMPORT FILE						
DESCRIPTION	CP SURVEY CALIBRATION DATA						
PURPOSE	CP CALIBRATION RECORDS FOR THE INSPECTION						
FIELD NAME	DESCRIPTION	T	L	D	VALIDATION METHOD	VALIDATION SCOPE/LIBRARY	VALIDATION FILE
COMMENT	Comments within Variable Length "Memo" field	C	50	0	ALT+C		
							NO
							VALIDATION OTHER

KEY :	[T]ype	= [C]haracter, [N]umeric,	[D]ate,	[M]emo,	[L]ogical	VERSION : Revision : 1.00
	[L]ength	= Length of field				
	[D]ecimal	= Number of decimal places				DATE : 12/17/92

TEXT IMPORT DATA DICTIONARY							
FILE NAME	- CPSU_I.TXT - PIPELINE						
SYSTEM	- TEXT IMPORT FILE						
TYPE	- CP SURVEY INSPECTION DATA						
DESCRIPTION	- CP INSPECTION RESULTS/OBSERVATIONS						
PURPOSE	-						
FIELD NAME	DESCRIPTION	FORMAT	T	L	D	VALIDATION METHOD	VALIDATION SCOPE/LIBRARY
IDENT	Pipeline Identity	C	14	0			
INSPNO	Inspection Code - format mm/yy	C	6	0	X-REF		
OBS_FP	Observed Footpost (kft)	N	6	3		WORKPIPE	NO
CP	CP Reading at this Footpost (mV)	N	5	0	RANGE	-1200/-600	NO
							Cannot be zero

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

VERSION : Revision : 1.00  
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TEXT IMPORT DATA DICTIONARY							
FILE NAME	- CROS_I.TXT - PIPELINE - TEXT IMPORT FILE - CROSSING INSPECTION DATA - CROSSING INSPECTION RESULTS/OBSERVATIONS	DESCRIPTION	FORMAT	VALIDATION SCOPE/LIBRARY	VALIDATION FILE	VALIDATION FATAL	VALIDATION OTHER
FIELD NAME		T L D	VALIDATION METHOD				
IDENT	Pipeline Identity	C 14 0				NO	PL34 SPECIFIC CHECK
INSPNO	Inspection Code - format mm/yy	C 6 0	X-REF		WORKPIPE	NO	NOT CHECKED IN PL34
ID_CODE	Reference Number (of matching object)	C 2 0	X-REF		CROS_0	NO	
OBS_FP	Observed Footpost (kft)	N 6 3				NO	Cannot be zero
CDIST	Separation Distance (in)	N 2 0				NO	
CTYPE	Crossing Pipeline is [OVER,UNDER] this one	C 5 0	SET CHOICE	REFER		NO	
CR_SUPP	Number of Supports for Crossing	N 2 0				NO	
COOTHER	Identity of crossing pipeline	C 14 0	X-REF		PDESCRIP	YES	NEED TO ADD ALL CROSSED LINES
OTH_FP	Ref FP of Crossing on Other Line (kft)	N 6 3	X-REF		CROS_0	NO	
CANGLE	Clockwise Angle formed with Crossing Line	N 3 0	RANGE	0/360		NO	
CBEDTYPE	Seabed Soil Type	C 5 0	LIBRARY		CBEDTYPE	NO	
CDAM	Coating Damage at the Crossing [N/A, YES, NO]	C 3 0	SET CHOICE	REFER		NO	
PDAM	Physical Damage at the Crossing [N/A, YES, NO ]	C 3 0	SET CHOICE	REFER		NO	
COMMENT	Comments within Variable Length "Memo" field	C 60 0	ALT+C			NO	
ELECT_INT	Is there electrical interference [Y,N]	C 1 0	SET CHOICE	REFER		NO	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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TEXT IMPORT DATA DICTIONARY						
FIELD NAME	DESCRIPTION	FORMAT	VALIDATION METHOD	VALIDATION SCOPE/LIBRARY	VALIDATION FILE	VALIDATION FATAL
IDENT	Pipeline Identity	C 14 0				NO PL 34 SPECIFIC CHECK
INSPNO	Inspection Code - format nn/yy	C 6 0	X-REF		WORKPIPE	NO NOT CHECKED IN PL34
ID_CODE	Reference Number (of matching object)	C 2 0	X-REF		DEBR_0	NO
OBS_FP	Observed Footpost (kft)	N 6 3				NO Cannot be zero
DESC	Debris Description	C 40 0				NO
DIMENS	Dimensions of Debris (Length,Width,Height in ft)	C 14 0				NO
DAMAGE	Damage caused [YES,NO ]	C 3 0	SET CHOICE	REFER		NO
REMOVED	Debris removed [YES,NO ]	C 3 0	SET CHOICE	REFER		NO
PORTSTAR	Debris to PORT, STBD or ON Pipe [PORT,STBD,ON ]	C 4 0	SET CHOICE	REFER		NO
DIST	Distance from Pipeline (to nearest 0.5 ft)	N 4 1				NO
ID_REL	Related Inspectable Component	C 2 0	X-REF		MAST_0	NO C OR BLANK
COMMENT	Comments within Variable Length "Memo" field	C 60 0	ALT+C			NO
PULL_CURR	Is Debris Pulling Current [Y,N]	C 1 0	SET CHOICE	REFER		NO

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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TEXT IMPORT DATA DICTIONARY									
FIELD NAME	DESCRIPTION	T	L	D	VALIDATION METHOD	VALIDATION SCOPE/LIBRARY	VALIDATION FILE	VALIDATION FATAL	VALIDATION OTHER
IDENT	Pipeline Identity	C	14	0				NO	PL34 SPECIFIC CHECK
INSPNO	Inspection Code - format nnn/yy	C	6	0	X-REF		WORKPIPE	NO	NOT CHECKED IN PL34
ID_CODE	Not Recorded - Included for PL34 Import	C	2	0				NO	
OBS_FP	Observed Footpost (kft)	N	6	3				NO	Cannot be zero
ID_REL	Related Inspectable Component	C	2	0	X-REF		MAST_0	NO	C OR BLANK
EXPTYPE	Inspected Line Status [S,E,B]	C	1	0	SET CHOICE	REFER		NO	
EXPREAD	Exposure Reading (kft)	N	5	2				NO	0.25,0.5,0.75 OR 1.00 ONLY
BURLEN	Length of Pipeline Burial (ft)	N	4	0				NO	MUST BE BURIED TO HAVE VALUE

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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TEXT IMPORT DATA DICTIONARY						
FILE NAME	ITEM I.TXT					
SYSTEM	- PIPELINE					
TYPE	- TEXT IMPORT FILE					
DESCRIPTION	- ITEMS INSPECTION DATA					
PURPOSE	- INSPECTION RESULTS/OBSERVATIONS FOR MISCELLANEOUS INSPECTABLE ITEMS					
FIELD NAME	DESCRIPTION	T	L	D	FORMAT VALIDATION METHOD	VALIDATION SCOPE/LIBRARY
IDENT	Pipeline Identity	C	14	0		
INSPNO	Inspection Code - format mm/yy	C	6	0	X-REF	WORKPIPE
ID_CODE	Reference Number (of matching object)	C	2	0	X-REF	ITEM_0
OBS_FP	Observed Footpost (kft)	N	6	3		
DESC	Description of Item	C	20	0		
ID_REL	Related Inspectable Component	C	2	0	X-REF	MAST_0
COMMENT	Comments within Variable Length "Memo" field	C	50	0	ALT+C	
						NO

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

VERSION : Revision : 1.00  
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		TEXT IMPORT DATA DICTIONARY							
FILE NAME	- NAVI.I.TEXT								
SYSTEM	- PIPELINE								
TYPE	- TEXT IMPORT FILE								
DESCRIPTION	- NAVIGATION/DEPTH DATA								
PURPOSE	- PIPELINE NAVIGATION AND DEPTH DATA								
FIELD NAME	DESCRIPTION	T	FORMAT L	D	VALIDATION METHOD	VALIDATION SCOPE/LIBRARY	VALIDATION FILE	VALIDATION FATAL	VALIDATION OTHER
IDENT	Pipeline Identity	C	14	0				NO	PL34 SPECIFIC CHECK
INSPNO	Inspection Code - format nnm/yy	C	6	0	X-REF			NO	NOT CHECKED IN PL34
OBS_FP	Observed Footpost (kft)	N	6	3				NO	Cannot be zero
NORTHING	UTM COORDINATE (NORTHING)	N	13	3				NO	
EASTING	UTM COORDINATE (EASTING)	N	10	2				NO	
DEPTH	COORDINATE DEPTH (FT)	N	5	0				NO	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

VERSION : Revision : 1.00

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TEXT IMPORT DATA DICTIONARY							
FILE NAME	DESCRIPTION	FORMAT	VALIDATION METHOD	VALIDATION SCOPE/LIBRARY	VALIDATION FILE	VALIDATION FATAL	VALIDATION OTHER
PDAM I.TXT	Pipeline Identity	C 14 0				NO	PL34 SPECIFIC CHECK
PIPELINE	Inspection Code - format mm/yy	C 6 0	X-REF	WORKPIPE	NO	NOT CHECKED IN PL34	
TEXT IMPORT FILE	Reference Number (of matching object)	C 2 0	X-REF	PDAM_0	NO		
TYPE	Observed Footpost (kft)	N 6 3			NO	Cannot be zero	
PHYSICAL DAMAGE INSPECTION DATA	Damage Description	C 50 0			NO		
DESCRIPTION	Related Inspectable Component	C 2 0	X-REF	MAST_0	NO	C OR BLANK	
PHYSICAL DAMAGE INSPECTIONS RESULTS/OBSERVATIONS	Comments within Variable Length "Memo" field	C 60 0	ALT+C		NO		
PURPOSE							

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

VERSION : Revision : 1.00  
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TEXT IMPORT DATA DICTIONARY							
FILE NAME	- PHOT.I.TEXT						
SYSTEM	- PIPELINE						
TYPE	- TEXT IMPORT FILE						
DESCRIPTION	- PHOTO LOG FOR INSPECTION DATA						
PURPOSE	- PHOTOGRAPHIC LOG OF SHOTS TAKEN DURING INSPECTION						
FIELD NAME	DESCRIPTION	T	FORMAT	VALIDATION	VALIDATION	VALIDATION	VALIDATION
		L	D	SCOPE/LIBRARY	FILE	FATAL	OTHER
IDENT	Pipeline Identity	C	14	0		NO	PL34 SPECIFIC CHECK
INSPNO	Inspection Code - format nn/yy	C	6	0	X-REF	NO	NOT CHECKED IN PL34
ID_CODE	Not Recorded - Included for PL34 Import	C	2	0		NO	
OBS_FP	Observed Footpost (kft)	N	6	3		NO	Cannot be zero
ID_REL	Related Inspectable Component	C	2	0	X-REF	MAST_0	NO
FILM	Film number	N	3	0	RANGE	0/100000	NO
SHOT	Shot Number	N	3	0	RANGE	0/100000	NO
SUBJECT	Category of Subject	C	8	0			NO
CAPTION	Description of Shot	C	70	0			NO
						CANNOT BE BLANK	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

VERSION : Revision : 1.00  
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TEXT IMPORT DATA DICTIONARY							
FILE NAME	- SPAN.I.TXT						
SYSTEM	- PIPELINE						
TYPE	- TEXT IMPORT FILE						
DESCRIPTION	- SPAN OBSERVATIONS INSPECTION DATA						
PURPOSE	- SPAN INSPECTION RESULTS/OBSERVATIONS						
FIELD NAME	DESCRIPTION	T	FORMAT	VALIDATION METHOD	VALIDATION SCOPE/LIBRARY	VALIDATION FILE	VALIDATION FATAL
IDENT	Pipeline Identity	C	14 0				NO
INSPNO	Inspection Code - format nnn/yy	C	6 0	X-REF		WORKPIPE	NO
ID_CODE	Reference Number (of matching object)	C	2 0	X-REF		SPAN_0	NO
OBS_FP	Observed Footpost (kft)	N	6 3				NO
SPAN_LEN	Length of Span (ft)	N	4 0	RANGE	0/100000		NO
SPAN_HGHT	Height of Span (in)	N	3 0	RANGE	0/100000		NO
SUPP	Is Span Supported [YES,NO ]	C	3 0	SET CHOICE	REFER		NO
ID_REL	Related Inspectable Component	C	2 0	X-REF		MAST_0	NO
COMMENT	Comments within Variable Length "Memo" field	C	60 0	ALT+C			NO

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogica  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

VERSION : Revision : 1.00  
 DATE : 12/17/92

TEXT IMPORT DATA DICTIONARY									
FILE NAME	- STAB.I.TXT	DESCRIPTION	T	FORMAT L D	VALIDATION METHOD	VALIDATION SCOPE/LIBRARY	VALIDATION FILE	VALIDATION FATAL	VALIDATION OTHER
IDENT	Pipeline Identity		C	14 0				NO	PL34 SPECIFIC CHECK
INSPNO	Inspection Code - format mm/yy		C	6 0	X-REF		WORKTYPE	NO	NOT CHECKED IN PL34
ID_CODE	Not Recorded - Included for PL34 Import		C	2 0				NO	
OBS_FP	Observed Footpost (kft)		N	6 3				NO	Cannot be zero
ID_REL	Related Inspectable Component		C	2 0	X-REF		MAST_0	NO	C,I,A,CD,PD OR BLANK
STAB	Stab value (mV)		N	5 0	RANGE	-1200/-600		NO	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

VERSION : Revision : 1.00  
 DATE : 12/17/92

TEXT IMPORT DATA DICTIONARY									
FILE NAME	- SUPP_I.TXT								
SYSTEM	- PIPELINE								
TYPE	- TEXT IMPORT FILE								
DESCRIPTION	- SUPPORT INSPECTION DATA								
PURPOSE	- SUPPORT INSPECTION RESULTS/OBSERVATIONS								
FIELD NAME	DESCRIPTION	T	L	D	VALIDATION METHOD	VALIDATION SCOPE/LIBRARY	VALIDATION FILE	VALIDATION FATAL	VALIDATION OTHER
IDENT	Pipeline Identity	C	14	0				NO	PL34 SPECIFIC CHECK
INSPNO	Inspection Code - format nnn/yy	C	6	0	X-REF		WORKPIPE	NO	NOT CHECKED IN PL34
ID_CODE	Reference Number (of matching object)	C	2	0	X-REF		SUPP_0	NO	
OBS_FP	Observed Footpost (kft)	N	6	3				NO	Cannot be zero
SUP_TYPE	Supported Event	C	8	0	LIBRARY	SUPERVENT	SUPERVENT	NO	
SUP_PIPE	Supporting Pipeline [YES,NO]	C	3	0	SET CHOICE	REFER		NO	
START_FP	Position of Supported Event (Crossing or Span)	N	6	3				NO	
DESC	Description of Support	C	50	0				NO	
ID_REL	Related Inspectable Component	C	2	0	X-REF		MAST_0	NO	
COMMENT	Comments within Variable Length "Memo" field	C	60	0	ALT+C			NO	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

VERSION : Revision : 1.00

DATE : 12/17/92

TEXT IMPORT DATA DICTIONARY										
FILE NAME	VIDEO.L.TXT	T	L	D	FORMAT	VALIDATION METHOD	VALIDATION SCOPE/LIBRARY	VALIDATION FILE	VALIDATION FATAL	VALIDATION OTHER
SYSTEM	- PIPELINE	C	14	0					NO	PL34 SPECIFIC CHECK
TYPE	- TEXT IMPORT FILE	C	6	0	X-REF			WORKPIPE	NO	NOT CHECKED IN PL34
DESCRIPTION	- VIDEO FOOTAGE FOR INSPECTION DATA	C	2	0					NO	
PURPOSE	- LOG OF VIDEO FOOTAGE USED DURING THE INSPECTION	N	6	3					NO	Cannot be zero
IDENT	Pipeline Identity	C	2	0	X-REF				NO	
INSPNO	Inspection Code - format mm/yy	C	2	0	X-REF				NO	
ID_CODE	Not Recorded - Included for PL34 Import	N	3	0	RANGE	0/100000	MAST_0	NO	C,I,SU,A,CD,PD,DE,SP OR BLANK	
OBS_FP	Observed Footpost (kft)	C	2	0	X-REF				NO	
ID_REL	Related Inspectable Component	C	5	0					NO	
TAPE	Tape Number	C	70	0					NO	
TCOUNT	Tape Count	C	70	0					NO	
COMMENT	Comments regarding video frame	C	70	0					NO	

KEY : [T]ype = [C]haracter, [N]umeric, [D]ate, [M]emo, [L]ogical  
 [L]ength = Length of field  
 [D]ecimal = Number of decimal places

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DATABASE TABLES		
SYSTEM - LIBRARY		
FILE NAME	DESCRIPTION	TYPE
ANOD_MAT	ANODE MATERIAL TYPES	Library File
CBEDTYPE	SEABED TYPE	Library File
CDAMGRAD	COATING DAMAGE GRADE	Library File
CONTRACT	CONTRACTORS	Library File
CORR_CTG	CORROSION COATING TYPE	Library File
DEF_POS	DEFECT POSITION/CATEGORY	Library File
DIVETYP	TYPE OF DIVING OPERATIONS	Library File
EQ_TYPE	EQUIPMENT USED	Library File
GTRANS	TRANSFER SIGNATURE FILE	GTRAN
INSPCAT	GENERIC INSPECTION CATEGORY	Library File
ITEMDSC	ITEM DESCRIPTION	Library File
LIB_REF	USER LIBRARY REFERENCE FILE	GOWN
MASTHOLD	HOLD FILE FOR BACKUP	GTRAN
MEMO_FIL	TEMPORARY MENO FILE	GOWN
MGTTYPE	MARINE GROWTH TYPE	Library File
NCR_ALL	NON-CONFORMANCE DETAILS	GTRAN
NCR_IND	TEMPORARY NCR HOLD FILE	GOWN
NCR_REST	NCR - FOR RESTORATION ABORT	GTRAN
NCR_SUM	NON-CONFORMANCE SUMMARY	GTRAN
NCR_SUM1	TEMPORARY NCR SUM HOLD FILE	GOWN
OILFIELD	OILFIELD IDENTIFICATION	Library File
PDAMCAT	PHYSICAL DAMAGE CATEGORY	Library File
SOILTYPE	SEABED SOIL TYPES	Library File
SRCHTEMP	TEMPORARY SEARCH FILE	GOWN
SUPEVENT	SUPPORT STRUCTURE EVENT	Library File
SURFCOND	SURFACE CONDITION TYPES	Library File
TIP	TECHNICAL INFORMATION POOL	GHELP
UDRTEMP	TEMPORARY UDR FILE	GOWN
VESS_ID	SURVEY VESSELS	Library File
VERSION :	Revision : 1.00	
DATE :	12/17/92	

DATABASE TABLES		
SYSTEM	- LIBRARY	
FILE NAME	DESCRIPTION	TYPE
WTYPE	TYPE OF WORK DONE	Library File
VERSION :      Revision : 1.00		
DATE :      12/17/92		

DATABASE TABLES		
SYSTEM	- PIPELINE SUBSEA	
FILE NAME	DESCRIPTION	TYPE
ANOD_I	ANODE INSPECTION	System File
ANOD_O	ANODE COMPONENTS	System File
CDAM_I	COATING INSPECTION	System File
CDAM_O	AREAS OF COATING DAMAGE	System File
COMM_I	GENERAL INSPECTION COMMENTS	System File
CPCALIB	CP CALIBRATION RECORD	System File
CPSU_I	CP READINGS	System File
CROS_I	CROSSING INSPECTION RESULTS	System File
CROS_O	CROSSINGS	System File
DEBR_I	DEBRIS SURVEY	System File
DEBR_O	RECORDED DEBRIS	System File
EXPO_I	EXPOSURE READINGS	System File
ITEM_I	ITEMS INSPECTION RESULTS	System File
ITEM_O	INSPECTABLE ITEMS	System File
MAST_O	MASTER LIST OF COMPONENTS	System File
NAVI_I	NAVIGATION/DEPTH DATA	System File
PDAM_I	DAMAGE INSPECTION	System File
PDAM_O	AREAS OF PHYSICAL DAMAGE	System File
PDESCRIP	PIPELINE DESCRIPTIONS	System File
PHOT_I	PHOTOGRAPHIC LOG	System File
SPAN_I	SPAN INSPECTION	System File
SPAN_O	RECORDED SPANS	System File
STAB_I	STAB READINGS	System File
SUPP_I	SUPPORT INSPECTION	System File
SUPP_O	SUPPORTS	System File
VIDE_I	VIDEO LOG	System File
WORKPIPE	PIPELINE INSPECTION LOG	System File
WORKPLST	INSPECTION PIPELINE RECORD	System File
VERSION :      Revision : 1.00		
DATE :      12/17/92		

DATABASE TABLES		
SYSTEM	- RISER	
FILE NAME	DESCRIPTION	TYPE
RCDA_I	COATING INSPECTION	System File
RCDA_O	AREAS OF COATING DAMAGE	System File
RCLA_I	RISER CLAMP INSPECTION	System File
RCLA_O	IDENTIFIED RISER CLAMPS	System File
RCOM_I	GENERAL INSPECTION COMMENTS	System File
RISERS	RISER DESCRIPTIONS	System File
RITM_I	ITEM INSPECTION	System File
RITM_O	ITEM INSPECTION RESULTS	System File
RMST_O	MASTER LIST OF COMPONENTS	System File
RPDA_I	PHYSICAL DAMAGE SURVEY	System File
RPDA_O	AREAS OF PHYSICAL DAMAGE	System File
RPHO_I	PHOTOGRAPHIC LOG	System File
RSTA_I	RISER STAB READINGS	System File
RVID_I	VIDEO LOG	System File
WORKRISR	RISER INSPECTION LOG	System File
WORKRLST	INSPECTION RISER RECORD	System File

VERSION : Revision : 1.00

DATE : 12/17/92

PIPELINE DESC./HISTORY	INSPECTION #	PIPELINE ID #	DATE
YR. INSTALLED	CONTRACTOR	SERVICE (O,G,W)	O = OIL G = GAS W = WATER
PIPELINE DETAILS		ANODE DETAILS	
PIPELINE DIMENSIONS:	WALL THICKNESS - LENGTH (X 1000) -	TOTAL NUMBER ORIGINALLY INSTALLED	
NOMINAL O.D. (IN.)		COMPOSITION	
PIPELINE WEIGHT (LB/FT)		ATTACHMENT METHOD	
CONNECTING PIPE DIMENSIONS:	WALL THICKNESS - DIAMETER -	ANODE DIMENSIONS	LENGTH - WIDTH - THICKNESS -
CONNECTING RISER DIMENSIONS:	WALL THICKNESS - DIAMETER -	ANODE VOLUME (CU. FT.)	
YEAR LAST INSPECTED		ANODE WEIGHT	
STEEL TYPE AND GRADE		DESIGN LIFE	
ANTI-CORROSION COATING TYPE		CURRENT density (mA/FT)	
ANTI-CORROSION COATING THICKNESS		CAPACITY (AMPS/HR/LB)	
WEIGHT COAT THICKNESS		ANODE NO./TYPE	NO. ORIGINAL - NO. RETROFIT -
ESTIMATED % BURIAL (OVERALL)		ESTIMATED % DEPLETION	
COMMENTS			
INSPECTED BY:	SAMPLE PIPELINE CAIRS		
AUTHORIZED BY:			

WORK HISTORY	INSPECTION #	PIPELINE ID #	DATE
START DATE (MM/DD/YY)			
END DATE (MM/DD/YY)			
SPAN INSPECTED			
LENGTH INSPECTED			
WORK TYPE (REMEDIAL/INSPECTION/INSTALLATION)			
REMEDIAL WORK DESCRIPTION			
CONTRACTOR			
VESSEL(S)/DESCRIPTION			
DIVING TYPE (ROV, AIR, GAS, SAT)			
DIVING DESCRIPTION (EQUIPMENT, NO. DIVERS, ETC.)			
C.P. EQUIPMENT			
C.P. CONTRACTOR			
SURFACE NAVIGATION SYSTEM			
PIPETRACKER			
PROFILER			
WALL THICKNESS EQUIPMENT			
TOTAL PROJECT COST			

COMMENTS:

INSPECTED BY:

AUTHORIZED BY:

SAMPLE PIPELINE  
CAIRS

PIPELINE COMPONENTS		INSPECTION #	PIPELINE ID #			DATE	
LOCATION	COMPONENT DESCRIPTION (VALVE, FLANGE, SIDE TAP, ETC)		C.P. VALUE	PHOTO #	VIDEO #	DRAWING #	COMMENT #

COMMENTS:

LOCATION	FIELD JOINT #	DISTANCE ALONG JOINT	SAMPLE PIPELINE CAIRS
CODE	SURVEY FIX #	SEA MARK	

PHYSICAL DAMAGE	INSPECTION #	PIPELINE ID #	DATE
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DAMAGED COMPONENT - PIPELINE VALVE FLANGE SIDE TAP OTHER

DAMAGE REPORT #	LOCATION				
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DRAWING NUMBER					
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PHOTO NUMBER					
--------------	--	--	--	--	--

VIDEO NUMBER					
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DAMAGED COMPONENT					
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DAMAGE DIMENSIONS	LENGTH	WIDTH	DEPTH
	MAX.		
	MIN.		

PROBALE CAUSE					
---------------	--	--	--	--	--

C.P. VALUE					
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COMMENTS:

LOCATION	FIELD JOINT #	DISTANCE ALONG JOINT	SAMPLE PIPELINE CAIRS
CODE	SURVEY FIX #	SEA MARK	



SPAN		INSPECTION #			PIPELINE ID #			DATE			
LOCATION		SPAN DIST.(FT)	MAX HEIGHT (FT)	SPAN WEIGHT	SPAN MOVING (Y/N)	DEPTH (T.O.P.)	BOTTOM TYPE	DRAWING NO.	PHOTO #	VIDEO #	CMMNT #

COMMENTS:

LOCATION	FIELD JOINT #	DISTANCE ALONG JOINT	SAMPLE PIPELINE CAIRS	
			CODE	SURVEY FIX #

C.P. SURVEY	INSPECTION #		PIPELINE ID #			DATE			
C.P. CONTRACTOR:			EQUIPMENT:						
LOCATION	C.P. VALUE					PHOTO #	VIDEO #	DRAWING #	COMMENT #
	PIPELINE	ANODE	VALVE	FLANGE	OTHER/DESC.				

COMMENTS:

LOCATION	FIELD JOINT #	DISTANCE ALONG JOINT		SAMPLE PIPELINE CAIRS	
CODE	SURVEY FIX #	SEA MARK			





DEBRIS		INSPECTION #			PIPELINE ID #				DATE				
LOCATION	DEBRIS DESCRIPTION	DIMENSIONS			DIST. FROM PIPE (FT)	SIDE OF PIPE	DAM- AGED (Y/N)	REM- OVED (Y/N)	C.P. VALUE	PHOTO #	VIDEO #	DWG. NO.	CMMNT #
		L	W	H									

COMMENTS:

LOCATION	FIELD JOINT #	DISTANCE ALONG JOINT	SAMPLE PIPELINE CAIRS
CODE	SURVEY FIX #	SEA MARK	

PHOTO LOG		INSPECTION #			PIPELINE ID #		DATE
LOCATION		ROLL #	FRAME #	INSPECTION CLASS	DESCRIPTION		
LOCATION		FIELD JOINT #		DISTANCE ALONG JOINT		SAMPLE PIPELINE CAIRS	
CODE	SURVEY FIX #		SEA MARK				



GENERAL COMMENTS		INSPECTION #	PIPELINE ID #	DATE
		PHOTO NO.	VIDEO NO.	INSPECTION CATEGORY
				DRAWING NO.

COMMENTS:

		PHOTO NO.	VIDEO NO.	INSPECTION CATEGORY	DRAWING NO.

COMMENTS:

		PHOTO NO.	VIDEO NO.	INSPECTION CATEGORY	DRAWING NO.

COMMENTS:

		PHOTO NO.	VIDEO NO.	INSPECTION CATEGORY	DRAWING NO.

COMMENTS:

LOCATION	FIELD JOINT #	DISTANCE ALONG JOINT	SAMPLE PIPELINE CAIRS	
CODE	SURVEY FIX #	SEA MARK		